HydroTech Environmental
ENGINEERING AND GEOLOGY, DPC
231 West 29th Street, Suite 1104
New York, New York 10001 USA
Tel: (631) 462-5866
Email: Info@hydrotechenvironmental.com
WWW.HYDROTECHENVIRONMENTAL.COM
USA – Middle East – North Africa

Periodic Review Report

January 29, 2023 to January 29, 2024

107-02 Queens Boulevard, Queens, NY

NYSDEC Site # C241196

Prepared For:

RJ Capital Holdings, LLC, AVG Capital LLC and De Boulevard LLC

215-15 Northern Boulevard, Bayside, NY 11361

Prepared By:

Hydro Tech Environmental Engineering and Geology, DPC

231 West 29th Street, Suite 1104, New York, NY 10001

June 14, 2024

CERTIFICATION STATEMENT

I, Tarek Z Khouri, certify that I am currently a NYS registered Professional Engineer and that this Periodic Review Report for the 107-02 Queens Boulevard Site, Queens, NY (Site Number: C241196) was prepared for the reporting period 2023-2024 in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

- The inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;
- Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- Use of the site is compliant with the environmental easement;
- The engineering control systems are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program and generally accepted engineering practices; and
- The information presented in this report is accurate and complete.

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

I, Tarek Z. Khouri at Hydro Tech Environmental Engineering and Geology, DPC, am certifying as a Professional Engineer for the site owner De Boulevard LLC.

NYS Professional Engineer	Date	Signature/Stamp
# 086611	6-14-2024	

TABLE OF CONTENTS

Figures

Tables

Appendices

1.0 EXECUTIVE SUMMARY

The site is located at 107-02 Queens Boulevard in the Forest Hills neighborhood of the County of Queens, New York and consists of one parcel identified as Block 3238 and Lot 44 on the New York City Tax Map. The Site was previously identified as 107-02 to 107-16 Queens Boulevard and this information was referenced in the Certificate of Completion (COC) dated September 2021. The site is an approximately 0.390-acre area (17,090 square feet). The site is zoned C4-5X (commercial district) and is currently developed with a 10-story residential and commercial building with a partial sub-grade cellar and a full cellar occupying 100% of the lot area. The partial sub-cellar level is approximately 5,750 square feet in the western portion of the site and is used for building mechanics and residential storage spaces. The full cellar is occupied by a gym identified as Planet Fitness. The first floor consists of a residential lobby and four commercial units. One commercial unit is currently vacant. The other 3 units are occupied by Planet Fitness, Sear Physical Therapy and a restaurant that is still undergoing interior finishings. The second floor consists of a parking. Floors 3 to 10 consist of 72 condominium units, of which, 11 units remain unoccupied and are being listed in the real estate market for sale.

This site is enrolled in the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) and referred to as site No. C241196. The site was remediated by RJ Capital Holdings, LLC, AVG Capital LLC and De Boulevard LLC in accordance with a Brownfield Cleanup Agreement (BCA), which was executed on March 01, 2017. Following site remediation, a Certificate of Completion (COC) was issued by NYSDEC on September 29, 2021.

This annual Periodic Review Report (PRR) was prepared for the reporting period 2023 – 2024 in accordance with NYSDEC-approved Site Management Plan (SMP) dated September 2021. This PRR documents the annual site wide inspection of engineering controls consisting of an active sub-slab depressurization system (SSDS), the post SSD

system start-up indoor air assessment results, the monthly inspections and semi-annual monitoring of the SSD system, the sampling of influents and effluents of two Granulated Activated Carbon (GAC) treatment drums associated with two SSD system blowers.

Findings of this PRR indicate the Site is currently in compliance with the requirements of the September 2021 SMP. No evidence of indoor soil vapor intrusion impact is identified at the site. The installed engineering and institutional controls at this suite continue to be effective and are operating satisfactorily. No change to the frequency for submittal of the annual PRR is recommended at this time.

2.0 SITE OVERVIEW

The PRR is prepared for the property located at 107-02 Queens Boulevard (site) in the Forest Hills neighborhood of the Queens County of New York. This site consists of one parcel identified as Block 3238 and Lot 44 on the New York City Tax Map. The site was previously addressed as 107-02 to 107-16 Queens Boulevard and this information was referenced in the Certificate of Completion (COC) dated September 2021. This site is an approximately 0.390-acre area (17,090 square feet) and is bounded on the north by Queen Boulevard service road followed by MacDonald Park, on the south by a 7-story residential building and a synagogue, on the east by a 5-story warehouse/utility (Verizon) building, and on the west by 70 Avenue followed by a US Post Office. It is zoned C4-5X (commercial district) and is currently developed with a 10-story residential and commercial building with a partial sub-grade cellar and a full cellar occupying 100 % of the lot area. The partial sub-cellar level is approximately 5,750 square feet in the western portion of the Site and is used for building mechanics and residential storage spaces. The full cellar is occupied by a gym identified as Planet Fitness. The first floor consists of a residential lobby and four commercial units. Only three commercial units have been occupied by Planet Fitness, Sear Physical Therapy and a restaurant that is still undergoing interior finishings. The second floor consists of a parking. Floors 3 to 10 consist of 72 condominium units, of which, 11 units remain unoccupied and are being listed in the real estate market for sale.

The site was historically occupied by stables in the northwestern portion around 1902, a 2-story dwelling in the western portion in 1914. The Site became vacant in 1932 and was then developed with the former 1-story commercial building with a rear parking in 1950. The commercial building housed 7 storefronts with shared basements. Past uses of the commercial units included retail shops, restaurants, beauty salons, and drycleaners. The drycleaner at the Site was located at 107-06 Queens Boulevard and was identified

as Discount Cleaners in 1983, Double D Cleaners in 1991 and Liz Cleaners from 2005 until building demolition in preparation for remedial construction.

RJ Capital Holdings, LLC, AVG Capital LLC and De Boulevard LLC and the New York State Department of Environmental Conservation (NYSDEC) entered into a Brownfield Cleanup Agreement (BCA) on March 01, 2017. The site was then characterized in a Remedial Investigation Report (RIR) prepared by HydroTech and dated August 2017. The RIR identified contaminants of concern at the site that exceeded the applicable Site Cleanup Goals (SCGs) including volatile organic compounds (VOCs) particularly tetrachloroethylene, or PCE in soil, in dry sewer pit sediments, in groundwater and in soil vapors and also pesticides in soil.

The site was then remediated in accordance with a Remedial Action Work Plan (RAWP) prepared by HydroTech and in compliance with the Decision Document dated June 2018. A Final Engineering Report (FER) prepared by HydroTech and dated September 2021 summarized the completed remedial actions at the Site, which included the following:

- Excavation and off-site disposal of approximately 8,600 tons of contaminated soil/historic fill material exceeding the unrestricted use soil cleanup objectives (UUSCOs).
- Import of clean fill meeting the UUSCOs to complete the backfilling of the excavation and establish the design grades at the site.
- Installation of an active sub-slab depressurization system (SSDS) beneath the cellar and sub-cellar to mitigate the potential for soil vapor intrusion into the building.
- Development of a Site Management Plan (SMP) for long-term management of residual contamination as required by the Environmental Easement, including

plans for: (1) Institutional and Engineering Controls (IC/ECs); (2) monitoring; (3) operation and maintenance; and (4) reporting.

- Recording of an Environmental Easement to prevent future exposure to any contamination remaining at the site and to ensure implementation of the SMP.

Pursuant to the SMP prepared by HydroTech and dated September 2021 and consistent with the requirements of a Certificate of Completion (COC) issued by NYSDEC on September 29, 2021, this annual Periodic Review Report (PRR) was prepared for this site for the period of 2023-2024 to document the annual site wide inspection, the post SSD system start-up indoor air assessment during the heating season, the monthly inspections and semi-annual monitoring of the SSD system and the sampling of influents and effluents of two Granulated Activated Carbon (GAC) treatment drums associated with two SSD system blowers.

3.0 EVALUATION OF REMEDY PERFORMANCES, EFFECTIVENESS, AND PROTECTIVENESS

The monitoring and sampling plan contemplated in the September 2021 Site Management Plan (SMP) outlines the following activities:

Monitoring Program	Frequency / Schedule	Monitoring / Sampling Points	Analytical Parameter	Analytical Method
Site-Wide	Annually	Engineering Controls	Not Applicable	Not Applicable
SSD system	Monthly	- Color of Breakthrough Detector - Vacuum at Blower - Telemetry - Blowers On/off	Not Applicable	Not Applicable
	Semi-Annually	- Vacuum at TP-1 to TP-5 - Vacuum at Blower - Flow/PID at Ef-1 & Ef-2 - Telemetry - Blowers On/off	Not Applicable	Not Applicable
		- IF-1/EF-1 & IF-2/EF-2	VOCs	EPA Method TO-15
	First heating season after start-up and after system interruption/ re-start	- AI-1 to AI-5		

A copy of the SSD system monitoring locations is included in **Figure 1, Figure 2,** and **Figure 3**. A copy of the SSD system sampling locations is provided in **Figure 4**. **Appendix 1** provides photographs of the site-wide inspection.

3.1 Post SSD System Start-Up Indoor Air Assessment

As part of SSD system monitoring protocol presented in the September 2021 SMP, indoor air assessment was required post system start-up inside the new development during the heating season in 2022. This sampling was delayed due to unfinished interior insulation of the new building at the site, and it was performed on March 14, 2023 during the heating season in 2023. The purpose of this sampling was to assess the indoor air quality inside the building and to verify the effectiveness of the active SSD system in mitigating vapor intrusion beneath the building.

3.1.1 Indoor Air Sampling

Consistent with the sampling plan in the September 2021 SMP, five (5) indoor air samples designated IA-1 to IA-5 and one background outdoor air sample designated OA-1 were collected during this assessment. Specifically, IA-1 to IA-3 were collected inside the cellar, which is currently occupied by a gym facility. IA-4 and IA-5 were collected inside the sub-cellar, which is used as a bike room, building maintenance workshop and residential storage units. Specifically, IA-4 was obtained from the bottom of the elevator pit. In addition, one (1) background outdoor air sample designated OA-1 was also collected in the open lounge area on the third floor. Due to building condition and the lack of security within and around the Site at the time of sampling, this outdoor air sample could not be collected at the first-floor level. **Figure 4** provides the indoor air sampling locations map.

The ambient air sampling was conducted in accordance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006). Prior to the

indoor air sampling, a pre-sampling inspection was conducted across the cellar and sub-cellar of the building in accordance with the NYSDOH Indoor Air Sampling and Analysis Guidance dated February 2005. The inspection also included a product inventory of chemicals currently stored inside these spaces and a preliminary screening of indoor vapor concentrations utilizing a Photoionization Detector (PID). The pre-sampling inspection identified no olfactory evidence of petroleum odors, and no organic vapors (<0.1 ppm) using the PID. This inspection identified several sealed containers in the sub-cellar that are labelled as paint and caulk mostly used in building maintenance. The average indoor air temperature in the sub-cellar and cellar during sampling was approximately 67 degrees Fahrenheit. Despite the frequent entry and exit of gym customers to the cellar through a staircase from a gym lobby on the first floor of the building, this cellar area was considered tight. **Appendix 1** provides photographs. **Appendix 2** provides a New York State Department of Health Indoor Air Quality Questionnaire and Building Inventory.

Except for the IA-4, all other indoor and outdoor air samples were obtained from typical breathing zone height between 4 and 5 feet. Ambient air samples were then collected utilizing 6-liter Summa Canisters fitted with a 24-hour laboratory flow regulator to provide an adequate residential exposure scenario. The ambient air samples were analyzed for VOCs via EPA Method TO-15. **Appendix 3** provides the indoor and outdoor air samples laboratory analytical report.

A Data Usability Summary Report (DUSR) was prepared for the analytical results for ambient indoor/outdoor air samples by an independent data reviewer, Dr. Hanibal Tayeh, an independent contractor, who has been approved by DER to perform data validation. The results of the DUSR for analytical results indicate that the data is acceptable with minor issues in data summaries. All data was considered usable. A copy of the DUSR is provided in **Appendix 4**.

The ambient indoor/outdoor air data were submitted electronically to the NYSDEC on March 31, 2023, through the Environmental Information Management System using the NYSDEC standardized Electronic Data Deliverable (EDD) format. The EDD was accepted by NYSDEC on April 5, 2023.

3.1.2 Indoor Air Sampling Results

Table 1 provides the organic compounds detected in the indoor and outdoor air samples. As **Table 1** indicates, tetrachloroethylene and trichloroethylene were not detected in any of the five indoor air samples. Other chlorinated compounds were detected in the indoor air samples at relatively low concentrations and included carbon tetrachloride (maximum of 0.55 $\mu g/m^3$), chloroform (maximum of 0.54 $\mu g/m^3$) and methylene chloride (maximum of 2.1 $\mu g/m^3$). Detected concentrations of methylene chloride does not exceed its NYSDOH air guideline values of 60 $\mu g/m^3$.

3.1.3 Indoor Air Results Summary

The overall finding of this post-SSD system start-up indoor air assessment during the heating season is consistent with the previous investigation conducted in July 2021. The indoor air data continues to indicate that no soil vapor intrusion impact is present in the indoor air of the building.

3.2 Active Sub-Slab Depressurization System Monitoring Data

SSD system inspections have been performed semi-annually by a Qualified Environmental Professional (QEP) and monthly SSD system inspections have been conducted by the building maintenance personnel since building occupancy in January 2022. For the period covered in this report, the first semi-annual monitoring of the SSD system was performed on April 26, 2023. The second semi-annual monitoring of the SSD system was performed on January 29, 2024, approximately two months past its due date in November 2023 due to a delayed access into the building to conduct this monitoring.

During each semi-annual monitoring event, the vacuum at the sub-slab monitoring points TP-1 to TP-5 was measured utilizing a digital micro-manometer. The SSD system components including the suction blowers, telemetry systems and breakthrough detectors at SSDS-1 and SSD-2 were also visually inspected for proper functioning in accordance with the SSD system Operation and Maintenance Plan in the SMP by recording any physical wear, damage and operational issues associated with the airflow readings, vacuum readings, temperature at the GAC drums and change in color of the activated carbon bed Breakthrough Detectors mounted on each GAC drum. In addition, organic vapors were measured at the effluent of each SSD system utilizing a Photoionization detector (PID). The SSD system monitoring data from these two events are summarized in **Table 2**.

The results of the semi-annual SSD system monitoring for this reporting period indicate a steady vacuum of -30-inch H2O (WC) was recorded at the influent to SSDS-1. The vacuum at the influent to SSDS-2 was recorded at -38 WC during April 2023 and increased to -42 during January 2024. The Photoionization Detector (PID) measurements performed at the exhaust from SSDS-1 and SSDS-2 continue to indicate no organic vapors (<0.1 ppm).

The vacuum measured at sub-slab monitoring points associated with SSDS-1 ranged between -0.48 WC at TP-2 during April 2023 to -2.41 WC at TP-3 during January 2024. The vacuum at the sub-slab monitoring points associated with SSDS-2 ranged between -0.48 WC at TP-4 during April 2023 and -1.58 at TP-5 during January 2024. Overall vacuum measurements at the vacuum monitoring points at SSDS and SSDS-2 were within the range of negative pressure of -0.04 WC and -2.53 WC that was recorded at SSD system start-up during June 2021.

Despite the minor variations in the vacuum measured at SSDS-2 blower and in the vacuum measured sub-slab beneath the cellar and sub-cellar during this reporting

period, the overall monitoring data continues to be within the operating ranges specified in the SMP and as such the SSD system continues to operate as designed to render the Site protective of human health and the environment.

Based upon the two semi-annual SSD system inspections results and the review of the monthly SSD system inspections, no evidence of current or former deficiencies undermining the operation or function of the SSD system were noted.

Appendix 5 provides the semi-annual SSD system inspection checklist. **Appendix 6** provides the monthly SSD system inspections checklists.

3.3 Influent and Effluent Sampling at the GAC Drums

Influent and effluent of each of the two GAC drums associated with the two blowers at SSDS-1 and SSDS-2 were sampled on a semi-annual basis during the two SSD system semi-annual inspection events. Air samples were collected on April 26, 2023, and January 29, 2024, via sampling valves installed at the port of entry and exit of the GAC drums, which are designated as IF-1 and EF-1 at SSDS-1 and IF-2 and EF-2 at SSDS-2. The location of influents and effluents at the GAC drums are shown in the as-build drawings in **Figure 3**.

The air samples were obtained utilizing passivated and evacuated whole air 6-liter Summa® Canisters for the duration of 2 hours. Collected air samples were analyzed for VOCs via EPA Method TO-15. A copy of the laboratory analytical reports for the GAC influent and effluent samples is provided in **Appendix 7.**

Table 3 provides the tabulated analytical data for the influents and effluents samples for the period covered in this report. The results of the April 2023 testing revealed that tetrachloroethylene (PCE) was detected in both IF-1 and IF-2 at concentrations of 13 micrograms per cubic meter (ug/m^3) and 16 ug/m^3, respectively. Trichloroethylene

(TCE), was detected in IF-2 at 0.5 ug/m^3. TCE was not detected in IF-1. The January 2024 influent concentrations for PCE have decreased to 2.8 ug/m^3 in IF-1 and 8 ug/m^3 in IF-2. No PCE concentrations were detected in the two effluents samples EF-1 or EF-2 during January 2024. In addition, TCE was not detected in any influent or effluents samples collected from the two GAC drums during the sampling events. These findings do not warrant the replacement of the GAC drums at this time.

4.0 INSTITUTIONAL CONTROL/ENGINEERING CONTROL COMPLIANCE

4.1 Institutional Controls

The following Institutional Controls are included in the SMP for the site:

- The property may be used for restricted residential use.
- All ECs must be operated and maintained as specified in this SMP.
- All ECs must be inspected at a frequency and in a manner defined in the SMP.
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or NYC Department of Health and Mental Hygiene to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department.
- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP.
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP.
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP.
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP.
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this SMP.
- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries, and any potential impacts that are identified must be monitored or mitigated.

- Vegetable gardens and farming on the site are prohibited.

The site-wide inspection determined that Institutional Controls have been complied with including compliance with the Environmental Easement and the SMP. There are no recommendations for change of Institutional Controls at this time.

4.2 Engineering Controls

The Engineering Control (EC) listed at the site includes the following:

- Active SSD system

The EC present at the site appears to be operating satisfactorily as designed to render the site protective to human health and the environment. The SSD system operation is in compliance with the SMP. There are no new conclusions that would trigger any necessary changes or modifications to improve the operation of the EC present at the site.

Based upon the information evaluated in this report, the Institutional and Engineering Controls Certification Form was filled in and certified by Tarek Z. Khouri, a New York State Licensed Professional Engineer (PE). A copy of the EC/IC Certification statement and form is included in **Appendix 8**.

5.0 OPERATION & MAINTENANCE COMPLIANCE REPORT

5.1 Component of Operation & Maintenance (O&M) Plan

The SSD system installed at this Site is includes two individual blowers that will continuously extract chlorinated VOCs from beneath the Site and these vapors are treated via GAC drums prior to being discharged into the ambient air. Routine maintenance and balancing inspection of the two active SSD systems were performed monthly by the building maintenance personnel. Field screening (PID) and recording system readings (vacuum/flow) and vacuum at monitoring points were performed by HydroTech QEP semi-annually.

5.2 Summary of O&M Completed During Reporting Period

Confirmation of the operation of each of the two SSD systems is documented by routine inspections performed by appropriate personnel. The required inspection scope consisted of visual inspections to confirm the integrity of the SSD system piping and floor seals, confirmation that each blower is operating properly by observing switches, telemetry, vacuum gauges, activated carbon bed Breakthrough Detectors on the GAC drums, PID, and collection of differential pressure readings at each existing vacuum monitoring points. The routine check also noted any unusual conditions, if present (e.g., unusual odors, spills, leaks, blower noise, etc.).

In accordance with the required O&M inspection schedule in the SMP, monthly observations of the blower were recorded by the building management in the monthly inspection checklists. The QEP, under the direction of the Remedial Engineer, performed semi-annual site visits to complete the semi-annual SSD system inspection checklists for this reporting year in April 2023 and in January 2024.

The semi-annual SSD system inspections checklists are provided in **Appendix 5** and the monthly SSD system inspections checklists are included in **Appendix 6**.

5.3 Evaluation of Remedial System

According to building management, the active SSD system remained on a continuous operation schedule without interruption during this reporting period. In addition, no evidence of current or former deficiencies undermining the operation or functions of the SSD system were identified during this period.

The semi-annual readings of applied vacuum on the two SSD systems piping lines ranged from -30 WC to -40 WC, which exceeded the critical threshold of -20 WC. Differential pressure readings collected semi-annually from the five existing sub-slab vacuum monitoring points (TP-1 to TP-5) ranged from -0.48 WC to -2.41 WC and were within the background thresholds of -0.04 WC and -2.53 WC and confirmed that negative pressure was maintained below the building slabs. The observation of the GAC breakthrough detectors at SSDS-1 and SSD-2 and the evaluation of the organic vapor measured with the PID at less than the threshold of 10 ppm along with the level of concentrations of chlorinated vapor detected in analyzed air samples collected at the influent and effluents of the GAC drum did not warrant the replacement of these drums during this period.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Compliance

The remedial construction at the Site was finished with a 10-story residential and commercial building with two sub-grade cellar levels. Currently, 1 of the 4 commercial units on the ground floor is vacant and 11 of 72 condominiums are unoccupied and are being listed in the real estate market for sale.

The EC installed as part of this new development consisted of an active SSD system.

The requirements stipulated in the September 2021 SMP regarding IC/ECs and the monitoring and O&M Plan in relation to the SSD system monitoring were met during the reporting period. No disturbance was observed in the land use and the SSD system was maintained in good condition without the need for any repairs or maintenance as confirmed during the monthly and the two semi-annual SSD system inspections and monitoring events.

6.2 Performance and Effectiveness of Remedy

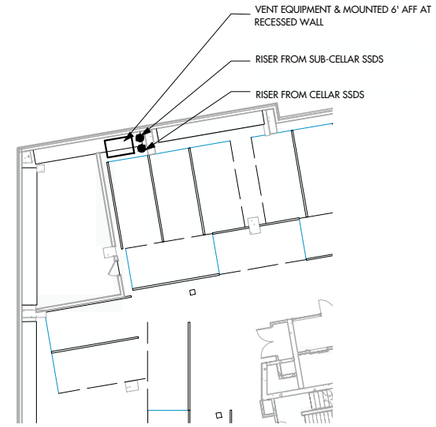
An evaluation of the components of the SMP during this reporting period indicates that the IC/EC controls are protective of human health and the environment. This is evidenced by the March 2023 indoor air sampling results, which indicate no soil vapor intrusion impact exists beneath the new building at the Site, consistent with the former indoor air sampling performed in July 2021. This finding is also supported by the SSD system monitoring data, which shows the system continues to be operating as designated. The influent and effluent data collected during this reporting period from the two GAC drums indicates the activated carbon in these drums is still efficiently treating VOCs emissions from the SSD system.

6.3 Recommendation

A summary of the recommended ICs/EC inspection, monitoring and sampling activities is provided below:

- The monthly SSD system inspections by the building maintenance personnel will continue, along with the semi-annual SSD system monitoring and sampling by a QEP to ensure the proper implementation of O&M plan and monitoring and sampling schedule listed in the September 2021 SMP.
- No change shall be made to the frequency for submittal of the annual PRR at this time. In accordance with the September 2021 SMP, the next PRR for this site in due annually or at another frequency as may be required by the NYSDEC. As such, the next PRR shall be due during February 2025.

FIGURES



2ND FLOOR

LEGEND:

■ PERMANENT VACUUM MONITORING POINTS (TP-)

DATE	DESCRIPTION	CHK

SEAL & SIGNATURE

HYDROTECH ENVIRONMENTAL ENGINEERING AND GEOLOGY, DPC

231 WEST 29TH STREET, SUITE 1104, NEW YORK, NY 10001

TEL: (631) 462-5866

BASE DRAWING PREPARED BY

JARMEL KIZEL ARCHITECTS AND ENGINEERS INC.

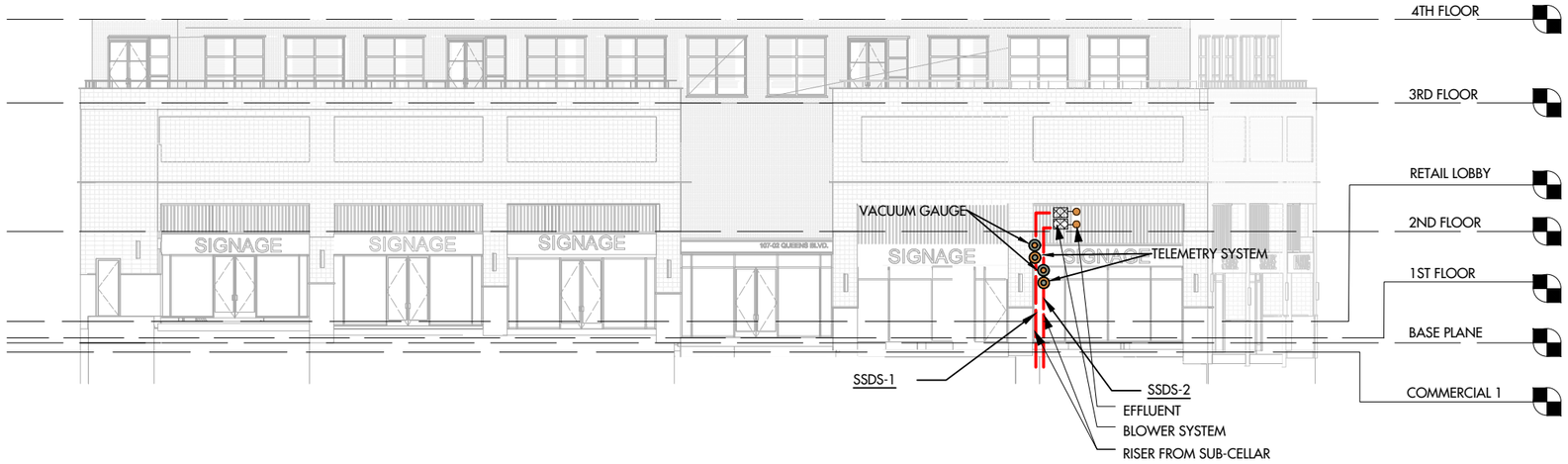
PROJECT NAME AND ADDRESS

107-02 QUEENS BLVD, QUEENS, NEW YORK

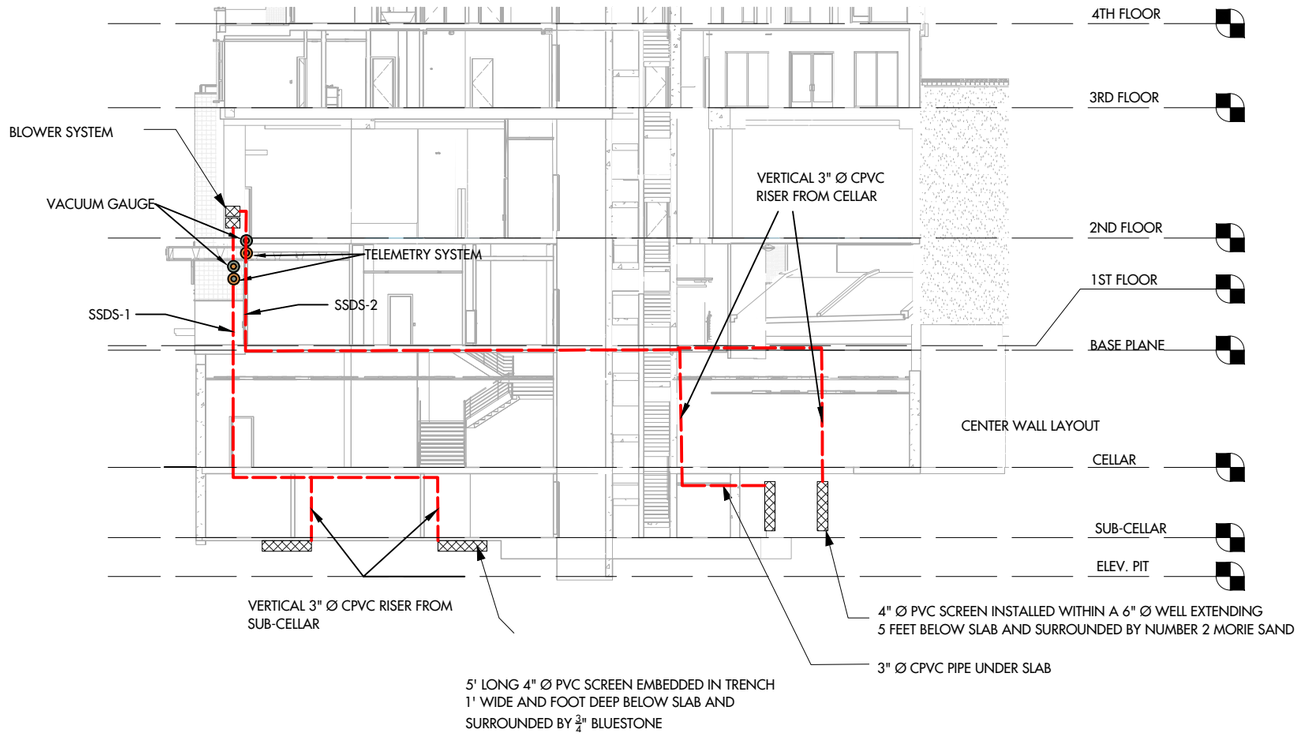
PROJECT FIGURE

FIGURE 1: AS-BUILD PLANS OF SSD SYSTEM - PLAN VIEW

PROJECT NO.	DATE
230063	1/26/2024
DRAWN BY: G.T.	REVIEWED BY: P.M.
SCALE (11X17): AS SHOWN	APPROVED BY: P.M.



NORTH BUILDING ELEVATION



BUILDING SECTION 2

DATE	DESCRIPTION	CHK

SEAL & SIGNATURE

HYDROTECH ENVIRONMENTAL ENGINEERING AND GEOLOGY, DPC

231 WEST 29TH STREET, SUITE 1104, NEW YORK, NY 10001

TEL: (631) 462-5866

BASE DRAWING PREPARED BY

JARMEL KIZEL ARCHITECTS AND ENGINEERS INC.

PROJECT NAME AND ADDRESS

107-02 QUEENS BLVD, QUEENS, NEW YORK

PROJECT FIGURE

FIGURE 2: AS-BUILD PLANS OF SSD SYSTEM - SECTIONS VIEW

PROJECT NO.	DATE
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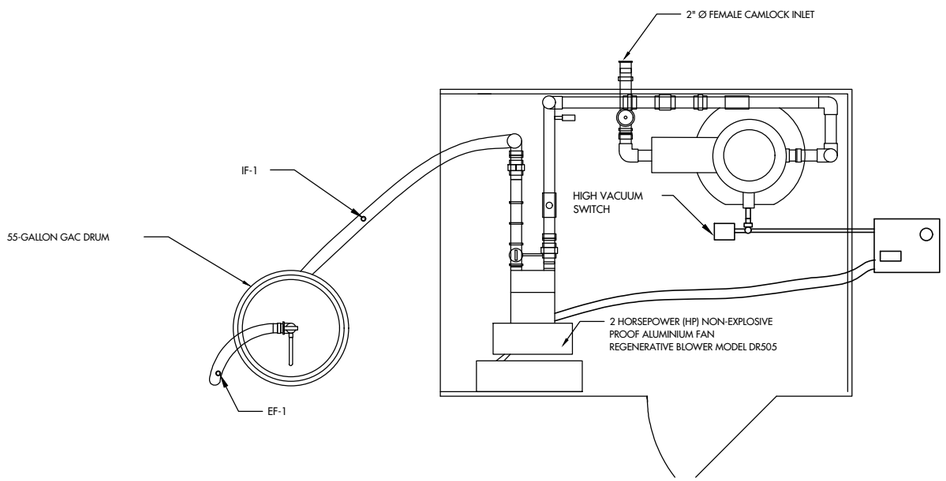
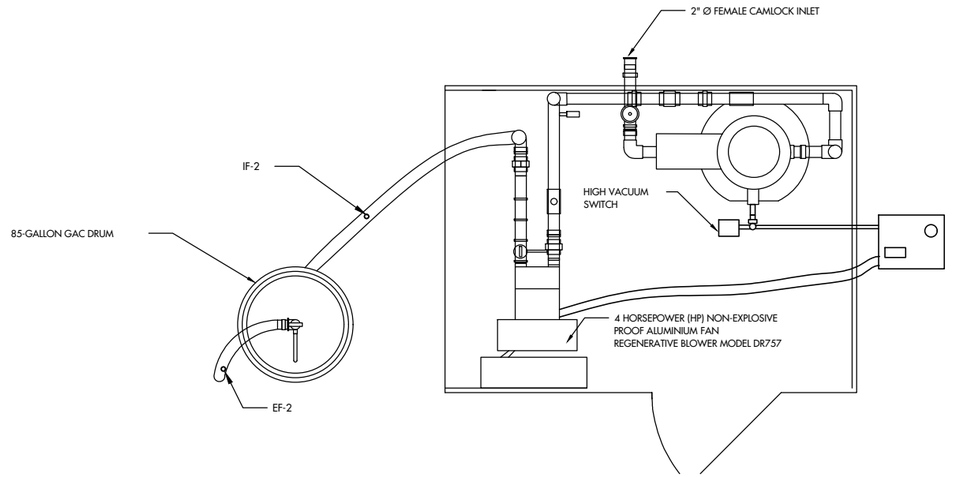
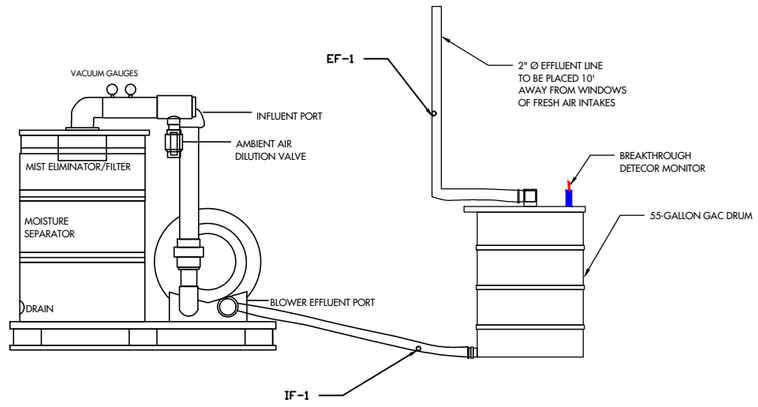
DRAWN BY G.T.	REVIEWED BY P.M.
SCALE (11X17) AS SHOWN	APPROVED BY P.M.



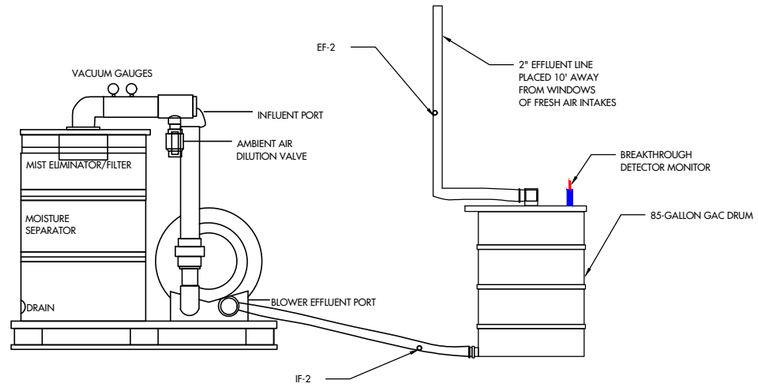
SSDS-1 EQUIPMENT PLAN VIEW



SSDS-2 EQUIPMENT PLAN VIEW



SSDS-1 EQUIPMENT CROSS SECTION VIEW



SSDS-2 EQUIPMENT CROSS SECTION VIEW

EF = EFFLUENT

IF = INFLUENT

DATE	DESCRIPTION	CHK

SEAL & SIGNATURE

HYDROTECH ENVIRONMENTAL ENGINEERING AND GEOLOGY, DPC

231 WEST 29TH STREET, SUITE 1104,
NEW YORK,
NY 10001

TEL: (631) 462-5866

BASE DRAWING PREPARED BY

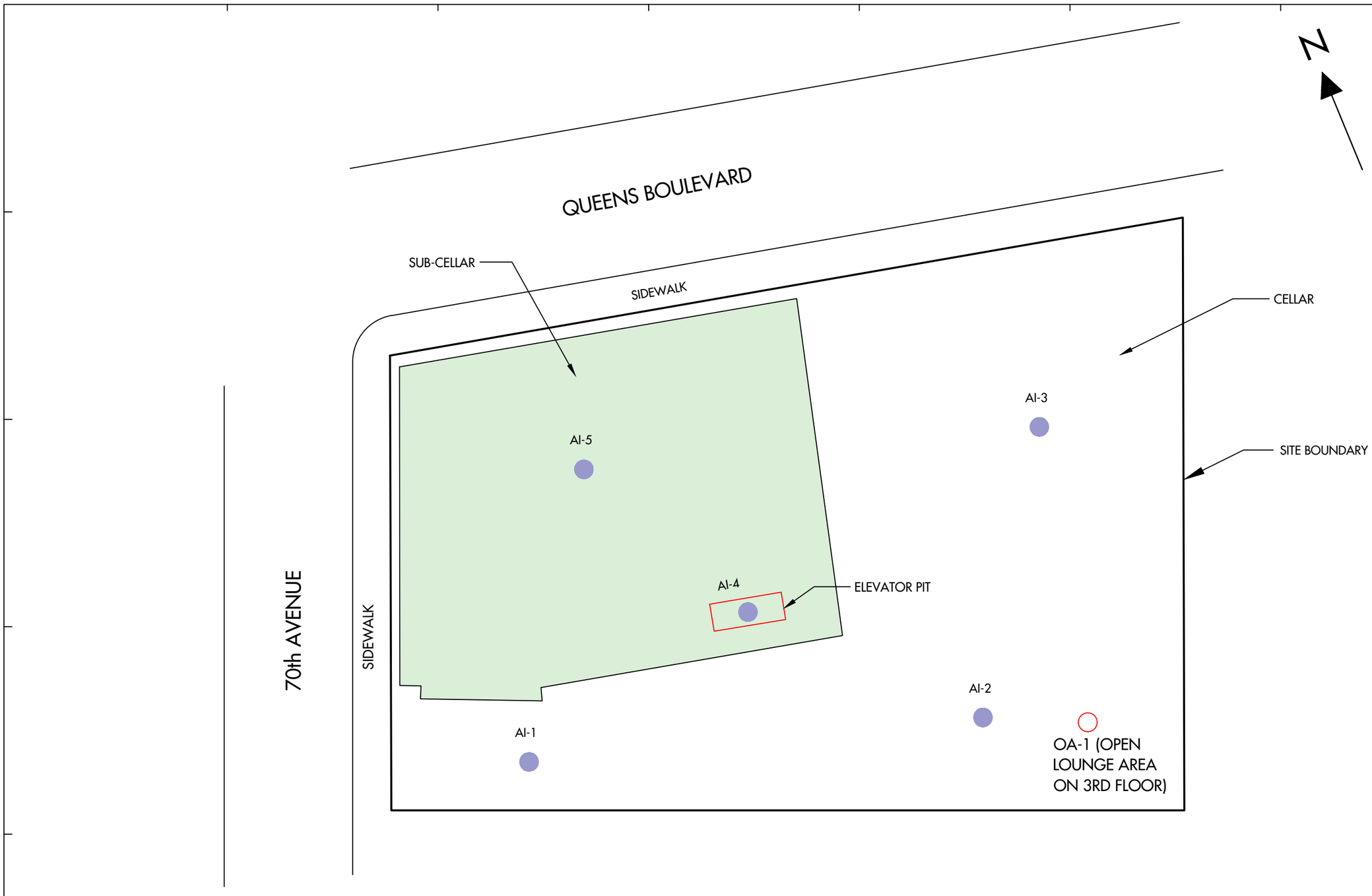
PROJECT NAME AND ADDRESS

107-02 QUEENS BLVD, QUEENS, NEW YORK

PROJECT FIGURE

FIGURE 3: AS-BUILD PLANS OF SSD SYSTEM - BLOWER SYSTEM DETAILS

PROJECT NO.	DATE
230063	1/26/2024
DRAWN BY G.T.	REVIEWED BY P.M.
SCALE (11X17) AS SHOWN	APPROVED BY P.M.



LEGEND:

- INDOOR AIR SAMPLING LOCATIONS (AI-)
- OUTDOOR AIR SAMPLING LOCATIONS (OA-)

0 20 40

APPROXIMATE SCALE IN FEET

DATE	DESCRIPTION	CHK

SEAL & SIGNATURE

HYDROTECH ENVIRONMENTAL ENGINEERING AND GEOLOGY, DPC

231 WEST 29TH STREET, SUITE 1104,
NEW YORK,
NY 10001

TEL: (631) 462-5866

BASE DRAWING PREPARED BY

PROJECT NAME AND ADDRESS

107-02 QUEENS BLVD, QUEENS, NEW YORK

PROJECT FIGURE

FIGURE 4: INDOOR AIR SAMPLING MAP

PROJECT NO.	DATE
230063	1/26/2024
DRAWN BY: G.T.	REVIEWED BY: P.M.
SCALE (11X17): AS SHOWN	APPROVED BY: P.M.

TABLES

Table 1
Post SSD System Start-up Indoor Air Samples Analytical Results
107-02 Queens Boulevard, Queens, NY

Sample ID	AI-1		AI-2		AI-3		AI-4		AI-5		AO-1	
Sampling Date	3/14/2023		3/14/2023		3/14/2023		3/14/2023		3/14/2023		3/14/2023	
Client Matrix	Indoor Air		Indoor Air		Indoor Air		Indoor Air		Indoor Air		Outdoor Air	
Compound	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Units	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
1,1,1,2-Tetrachloroethane	0.690	U	0.690	U	0.670	U	0.640	U	0.630	U	0.730	U
1,1,1-Trichloroethane	0.550	U	0.550	U	0.530	U	0.510	U	0.500	U	0.580	U
1,1,2,2-Tetrachloroethane	0.690	U	0.690	U	0.670	U	0.640	U	0.630	U	0.730	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon	0.770	U	0.770	U	0.740	U	0.720	U	0.710	U	0.820	U
1,1,2-Trichloroethane	0.550	U	0.550	U	0.530	U	0.510	U	0.500	U	0.580	U
1,1-Dichloroethane	0.410	U	0.400	U	0.390	U	0.380	U	0.370	U	0.430	U
1,1-Dichloroethylene	0.100	U	0.0990	U	0.0960	U	0.0930	U	0.0910	U	0.110	U
1,2,4-Trichlorobenzene	0.750	U	0.740	U	0.720	U	0.700	U	0.680	U	0.790	U
1,2,4-Trimethylbenzene	**0.99**	D	**1.10**	D	**1.10**	D	0.460	U	**0.91**	D	0.520	U
1,2-Dibromoethane	0.770	U	0.770	U	0.750	U	0.720	U	0.710	U	0.820	U
1,2-Dichlorobenzene	0.610	U	0.600	U	0.580	U	0.560	U	0.550	U	0.640	U
1,2-Dichloroethane	0.410	U	0.400	U	0.390	U	0.380	U	0.370	U	0.430	U
1,2-Dichloropropane	0.470	U	0.460	U	0.450	U	0.430	U	0.430	U	0.490	U
1,2-Dichlorotetrafluoroethane	0.700	U	0.700	U	0.680	U	0.660	U	0.640	U	0.750	U
1,3,5-Trimethylbenzene	0.500	U	0.490	U	0.480	U	0.460	U	0.450	U	0.520	U
1,3-Butadiene	0.670	U	0.660	U	0.650	U	0.620	U	0.610	U	0.710	U
1,3-Dichlorobenzene	0.610	U	0.600	U	0.580	U	0.560	U	0.550	U	0.640	U
1,3-Dichloropropane	0.470	U	0.460	U	0.450	U	0.430	U	0.430	U	0.490	U
1,4-Dichlorobenzene	0.610	U	0.600	U	0.580	U	0.560	U	0.550	U	0.640	U
1,4-Dioxane	0.730	U	0.720	U	0.700	U	0.680	U	0.660	U	0.770	U
2-Butanone	**7.10**	D	**5.90**	D	**13**	D	**1**	D	**1.40**	D	**10**	D
2-Hexanone	0.830	U	0.820	U	0.800	U	0.770	U	0.750	U	0.870	U
3-Chloropropene	1.600	U	1.600	U	1.500	U	1.500	U	1.400	U	1.700	U
4-Methyl-2-pentanone	**0.58**	D	0.450	D	**0.56**	D	**0.50**	D	**1.20**	D	0.440	U
Acetone	**29**	D	**26**	D	**29**	D	**26**	D	**29**	D	**16**	D
Acrylonitrile	0.220	U	0.220	U	0.210	U	0.200	U	0.200	U	0.230	U
Benzene	**0.68**	D	**0.70**	D	**0.84**	D	**0.54**	D	**0.47**	D	**0.61**	D
Benzyl chloride	0.520	U	0.520	U	0.500	U	0.490	U	0.480	U	0.550	U
Bromodichloromethane	0.670	U	0.670	U	0.650	U	0.630	U	0.620	U	0.710	U
Bromoform	1	U	1	U	1	U	0.970	U	0.950	U	1.100	U
Bromomethane	0.390	U	0.390	U	0.380	U	0.360	U	0.360	U	0.410	U
Carbon disulfide	0.310	U	0.310	U	0.300	U	0.290	U	0.290	U	0.330	U
Carbon tetrachloride	**0.44**	D	**0.44**	D	**0.55**	D	**0.530**	D	**0.52**	D	**0.470**	D
Chlorobenzene	0.460	U	0.460	U	0.45	U	0.430	U	0.420	U	0.490	U
Chloroethane	0.270	U	0.260	U	0.260	U	0.250	U	0.240	U	0.280	U
Chloroform	**0.54**	D	**0.54**	D	**0.47**	D	**1.30**	D	**0.72**	D	0.520	U
Chloromethane	**1.40**	D	**1.50**	D	**1.50**	D	**1.60**	D	**1.40**	D	**1.60**	D
cis-1,2-Dichloroethylene	0.100	U	0.0990	U	0.0960	U	0.0930	U	0.0910	U	0.110	U
cis-1,3-Dichloropropylene	0.460	U	0.450	U	**0.44**	U	0.430	U	0.420	U	0.480	U
Cyclohexane	0.350	U	0.340	U	0.330	U	0.320	U	0.320	U	0.370	U
Dibromochloromethane	0.860	U	0.850	U	0.830	U	0.800	U	0.780	U	0.910	U
Dichlorodifluoromethane	**2.60**	D	**2.80**	D	**3.20**	D	**3**	D	**2.60**	D	**3.30**	D
Ethyl acetate	0.730	U	**0.72**	D	0.700	U	0.680	U	**17**	D	0.770	U
Ethyl Benzene	**1.30**	D	**1.40**	D	**1.60**	D	0.410	U	**13**	D	0.830	D
Hexachlorobutadiene	1.100	U	1.100	U	1	U	1	U	0.980	U	1.100	U
Isopropanol	**91**	BD	**46**	BD	**81**	BD	**100**	BD	**71**	BD	**5.80**	BD
Methyl Methacrylate	0.410	U	0.410	U	0.400	U	0.380	U	0.380	U	0.440	U
Methyl tert-butyl ether (MTBE)	0.360	U	0.360	U	0.350	U	0.340	U	0.330	U	0.380	U
Methylene chloride	**1.50**	D	**2.10**	D	**1.90**	D	**1.50**	D	**1.40**	D	**1.30**	D
n-Heptane	0.410	U	**0.41**	D	**0.56**	D	0.380	U	**0.38**	D	0.44	U
n-Hexane	0.350	U	0.350	U	**0.58**	D	0.330	U	0.320	U	**0.38**	D
o-Xylene	**1**	D	**1.10**	D	**1.20**	D	0.410	U	**9.80**	D	**0.51**	D
p- & m- Xylenes	**3**	D	**3**	D	**3.30**	D	0.820	U	**38**	D	**1.60**	D
p-Ethyltoluene	**0.94**	D	**0.93**	D	**1**	D	0.460	U	**0.68**	D	0.520	U
Propylene	0.170	U	0.170	U	0.170	U	0.160	U	0.160	U	0.180	U
Styrene	**0.47**	D	**0.43**	D	**0.46**	D	0.400	U	0.390	U	0.450	U
Tetrachloroethylene	0.680	U	0.680	U	0.660	U	0.640	U	0.620	U	0.720	U
Tetrahydrofuran	**22**	D	**26**	D	**40**	D	**0.58**	D	0.540	U	**29**	D
Toluene	**3**	D	**3.20**	D	**4**	D	**1.50**	D	**1.40**	D	**2.30**	D
trans-1,2-Dichloroethylene	0.400	U	0.400	U	0.390	U	0.370	U	0.370	U	0.420	U
trans-1,3-Dichloropropylene	0.460	U	0.450	U	0.440	U	0.430	U	0.420	U	0.480	U
Trichloroethylene	0.140	U	0.130	U	0.130	U	0.130	U	0.120	U	0.140	U
Trichlorofluoromethane (Freon 11)	**1.40**	D	**1.30**	D	**1.40**	D	**1.40**	D	**1.30**	D	**1.50**	D
Vinyl acetate	0.350	U	0.350	U	0.340	U	0.330	U	0.320	U	0.380	U
Vinyl bromide	0.440	U	0.440	U	0.430	U	0.410	U	0.400	U	0.470	U
Vinyl Chloride	0.130	U	0.130	U	0.120	U	0.120	U	0.120	U	0.140	U

NOTES:
Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank

Table 2
Semi-Annual SSD System Monitoring Results Over Time
107-02 Queens Boulevard, NY

Date/Time	SSDS-1							SSDS-2					
	Blower				Vacuum Monitoring Points			Blower				Vacuum Monitoring Points	
	IF-1		EF-1	Vacuum	TP-1	TP-2	TP-3	IF-2		EF-2	Vacuum	TP-4	TP-5
	PID	Flow	PID					PID	Flow	PID			
6/1/2021 (Start-Up)	0	67.67	0	-28	-0.83	-0.69	-2.53	0	74.15	0	-38	-1.37	-1.05
3/21/2022	0	66.06	0	-30	-0.65	-0.60	-2.32	0	71.9	0	-37.5	-0.88	-0.93
10/19/2022	0	66.93	0	-30	-0.69	-0.66	-2.38	0	73.03	0	-38	-0.46	-1.52
4/26/2023	0	NM	0	-30	-0.57	-0.48	-2.09	0	NM	0	-38	-0.48	-1.34
1/29/2024	0	65.6	0	-30	-0.67	-0.57	-2.41	0	80.92	0	-42	-0.52	-1.58

PID---ppm
Vacuum---Inch Water
Flow…m^3/hour
Temp…Temperature in ◦F
NM…Not measured
IF-…Inlet into the Carbon Activated drum
EF-…Outlet from the Carbon Activated drum

Table 3
Semi- Annual GAC Influent/Effluent Samples Analytical Results - April 2023 and Januray 2024
107-02 Queens Boulevard, Queens, NY

Sample ID	IF-1		EF-1		IF-2		EF-2		IF-1		EF-1		IF-2		EF-2	
Sampling Date	4/26/2023								1/29/2024							
Client Matrix	SSDS-1 Influent		SSDS-1 Efdfluent		SSDS-2 Influent		SSDS-2 Efdfluent		SSDS-1 Influent		SSDS-1 Efdfluent		SSDS-2 Influent		SSDS-2 Efdfluent	
Compound	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
1,1,1,2-Tetrachloroethane	1.200	U	1.200	U	1.100	U	1.200	U	1	U	1.200	U	1	U	1.300	U
1,1,1-Trichloroethane	0.940	U	0.980	U	0.840	U	0.980	U	0.830	U	0.920	U	0.810	U	0.990	U
1,1,2,2-Tetrachloroethane	1.200	U	1.200	U	1.100	U	1.200	U	1	U	1.200	U	1	U	1.300	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon	1.300	U	1.400	U	1.200	U	1.400	U	1.200	U	1.300	U	1.100	U	**4.50**	D
1,1,2-Trichloroethane	0.940	U	0.980	U	0.840	U	0.980	U	0.830	U	0.920	U	0.810	U	0.990	U
1,1-Dichloroethane	0.700	U	0.720	U	0.620	U	0.730	U	0.620	U	0.680	U	0.600	U	0.740	U
1,1-Dichloroethylene	0.170	U	0.180	U	0.150	U	0.180	U	0.150	U	0.170	U	0.150	U	0.180	U
1,2,4-Trichlorobenzene	**2.60**	J	2.700	U	2.300	U	2.700	U	1.100	U	1.200	U	1.100	U	1.400	U
1,2,4-Trimethylbenzene	**2**	D	**1.90**	D	**1.70**	D	0.880	U	**1.10**	D	**2.10**	D	**2.40**	D	**2.40**	D
1,2-Dibromoethane	1.300	U	1.400	U	1.200	U	1.400	U	1.200	U	1.300	U	1.100	U	1.400	U
1,2-Dichlorobenzene	1	U	1.100	U	0.930	U	1.100	U	0.920	U	1	U	0.890	U	1.100	U
1,2-Dichloroethane	0.700	U	0.720	U	0.620	U	0.730	U	0.620	U	0.680	U	0.600	U	0.740	U
1,2-Dichloropropane	0.800	U	0.830	U	0.710	U	0.830	U	0.710	U	0.780	U	0.690	U	0.840	U
1,2-Dichlorotetrafluoroethane	1.200	U	1.300	U	1.100	U	1.300	U	1.100	U	1.200	U	1	U	1.300	U
1,3,5-Trimethylbenzene	0.850	U	0.880	U	0.760	U	0.880	U	0.750	U	0.830	U	0.730	U	0.900	U
1,3-Butadiene	1.100	U	1.200	U	1	U	1.200	U	1	U	1.100	U	0.990	U	1.200	U
1,3-Dichlorobenzene	1	U	1.100	U	0.930	U	1.100	U	0.920	U	1	U	0.890	U	1.100	U
1,3-Dichloropropane	0.800	U	0.830	U	0.710	U	0.830	U	0.710	U	0.780	U	0.690	U	0.840	U
1,4-Dichlorobenzene	1	U	1.100	U	0.930	U	1.100	U	0.920	U	1	U	0.890	U	1.100	U
1,4-Dioxane	1.200	U	1.300	U	1.100	U	1.300	U	1.100	U	1.200	U	1.100	U	1.300	U
2-Butanone	**4.40**	D	**31**	D	**2**	D	**1.30**	D	**2.70**	D	**9.30**	D	**15**	D	**12**	D
2-Hexanone	1.400	U	1.500	U	1.300	U	1.500	U	1.300	U	1.400	U	1.200	U	1.500	U
3-Chloropropene	2.700	U	2.800	U	2.400	U	2.800	U	2.400	U	2.600	U	2.300	U	2.900	U
4-Methyl-2-pentanone	0.710	U	0.730	U	0.630	U	0.740	U	0.630	U	**0.69**	U	0.610	U	0.750	U
Acetone	**15**	D	**21**	D	**7.40**	D	**4.30**	D	**18**	D	23	D	**40**	D	**19**	D
Acrylonitrile	0.370	U	0.390	U	0.330	U	0.390	U	**0.66**	J	**0.73**	J	0.650	U	**0.79**	J
Benzene	**0.94**	D	0.570	U	**1.30**	D	0.570	U	**1.30**	D	0.540	U	**0.67**	D	0.580	U
Benzyl chloride	0.890	U	0.930	U	0.800	U	0.930	U	0.790	U	0.870	U	0.770	U	0.940	U
Bromodichloromethane	1.200	U	1.200	U	1	U	1.200	U	1	U	1.100	U	1	U	1.200	U
Bromoform	1.800	U	1.900	U	1.600	U	1.900	U	1.600	U	1.700	U	1.500	U	1.900	U
Bromomethane	0.670	U	0.700	U	0.600	U	0.700	U	0.590	U	0.650	U	0.580	U	0.710	U
Carbon disulfide	0.540	U	0.560	U	0.480	U	0.560	U	0.480	U	0.520	U	0.460	U	0.570	U
Carbon tetrachloride	**0.65**	D	**0.56**	D	**0.58**	D	0.280	U	**0.48**	D	**0.53**	D	**0.56**	D	**0.46**	D
Chlorobenzene	0.790	U	0.820	U	0.710	U	0.830	U	0.700	U	0.770	U	0.690	U	0.840	U
Chloroethane	0.450	U	0.470	U	0.410	U	0.470	U	0.400	U	0.440	U	0.390	U	0.480	U
Chloroform	**32**	D	**18**	D	**56**	D	**29**	D	**1.50**	D	**21**	D	**19**	D	**21**	D
Chloromethane	0.360	U	0.370	U	0.320	U	0.370	U	**2.80**	D	**1.10**	D	**0.92**	D	**1.10**	D
cis-1,2-Dichloroethylene	0.170	U	0.180	U	0.150	U	0.180	U	0.150	U	0.170	U	0.150	U	0.180	U
cis-1,3-Dichloropropylene	0.780	U	0.810	U	0.700	U	0.820	U	0.690	U	0.760	U	0.680	U	0.830	U
Cyclohexane	0.590	U	0.620	U	0.530	U	0.620	U	0.530	U	0.580	U	**0.51**	D	0.630	U
Dibromochloromethane	1.500	U	1.500	U	1.300	U	1.500	U	1.300	U	1.400	U	1.300	U	1.600	U
Dichlorodifluoromethane	**3**	D	0.890	U	**3.10**	D	**3.20**	D	**4.10**	D	**2.90**	D	**4.40**	D	**4.40**	D
Ethyl acetate	1.200	U	1.300	U	1.100	U	1.300	U	1.100	U	1.200	U	1.100	U	1.300	U
Ethyl Benzene	**0.90**	D	**0.93**	D	**0.80**	D	0.780	U	**1.30**	D	**0.95**	D	**1.70**	D	**1.10**	D
Hexachlorobutadiene	1.800	U	1.900	U	1.600	U	1.900	U	1.600	U	1.800	U	1.600	U	1.900	U
Isopropanol	**24**	D	**26**	D	**18**	D	**23**	D	**16**	BD	**380**	BDE	**20**	BD	**440**	BDE
Methyl Methacrylate	0.700	U	0.730	U	0.630	U	0.740	U	0.630	U	0.690	U	0.610	U	0.750	U
Methyl tert-butyl ether (MTBE)	0.620	U	0.650	U	0.560	U	0.650	U	0.550	U	0.610	U	0.540	U	0.660	U
Methylene chloride	1.200	U	1.200	U	1.100	U	1.200	U	**1.50**	D	1.200	U	1	U	1.300	U
n-Heptane	0.710	U	0.730	U	0.630	U	0.740	U	**1**	D	0.690	U	**0.73**	D	0.750	U
n-Hexane	0.610	U	0.630	U	**0.71**	D	0.630	U	**1.90**	D	0.590	U	0.520	U	0.640	U
o-Xylene	**1.30**	D	**1.50**	D	**1.10**	D	0.780	U	**2.10**	D	**1.20**	D	**2.20**	D	**1.60**	D
p- & m- Xylenes	**3.60**	D	**3.90**	D	**3.20**	D	1.600	U	**5.20**	D	**4**	D	**7.30**	D	**4.80**	D
p-Ethyltoluene	**1.40**	D	**1.50**	D	**1.30**	D	0.880	U	0.750	U	**1.40**	D	**1.70**	D	**1.30**	D
Propylene	0.300	U	0.310	U	0.270	U	0.310	U	0.260	U	0.290	U	0.260	U	0.310	U
Styrene	0.730	U	0.760	U	0.660	U	0.770	U	**0.85**	D	0.720	U	0.630	U	0.780	U
Tetrachloroethylene	**13**	D	1.200	U	**16**	D	1.200	U	**2.80**	D	1.100	U	**8**	D	1.200	U
Tetrahydrofuran	**10**	D	**100**	D	**4**	D	**2.80**	D	**1.10**	D	**18**	D	**5.50**	D	**20**	D
Toluene	**2.80**	D	**2.40**	D	**2.60**	D	0.680	U	**8.40**	D	**1.80**	D	**22**	D	**1.90**	D
trans-1,2-Dichloroethylene	0.680	U	0.710	U	0.610	U	0.710	U	0.610	U	0.670	U	0.590	U	0.720	U
trans-1,3-Dichloropropylene	0.780	U	0.810	U	0.700	U	0.820	U	0.690	U	0.760	U	0.680	U	0.830	U
Trichloroethylene	0.230	U	0.240	U	**0.50**	D	0.240	U	0.210	U	0.230	U	0.200	U	0.240	U
Trichlorofluoromethane (Freon 11)	**1.50**	D	**1.40**	D	**3.90**	D	**3.90**	D	**2**	D	**1.30**	D	**5.200**	D	**4.80**	D
Vinyl acetate	0.610	U	0.630	U	0.540	U	0.630	U	0.540	U	0.590	U	0.520	U	0.640	U
Vinyl bromide	0.750	U	0.780	U	0.670	U	0.790	U	0.670	U	0.730	U	0.650	U	0.800	U
Vinyl Chloride	0.220	U	0.230	U	0.200	U	0.230	U	0.200	U	0.210	U	0.190	U	0.230	U

NOTES:
Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
U=analyte not detected at or above the level indicated
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
B=analyte found in the analysis batch blank
E=result is estimated and cannot be accurately reported due to levels encountered or interferences

APPENDICES

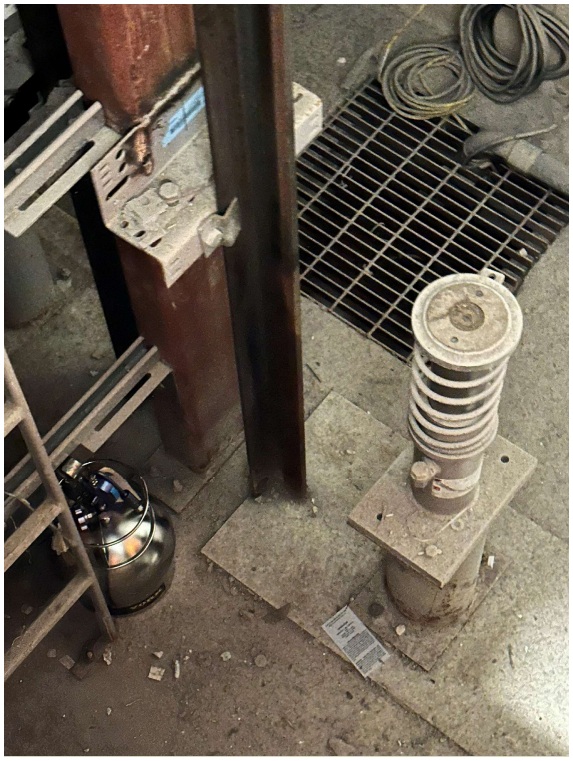
APPENDIX 1

Photographs

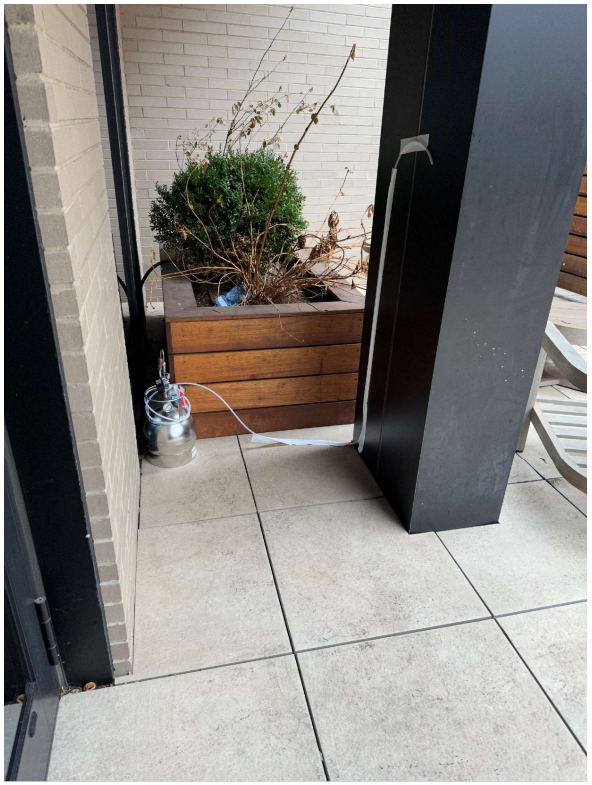
1- Organic vapor assessment in indoor air with PID

2-Paint containers in sub-cellar

3- Indoor air sampling inside the cellar



4- Indoor air sampling inside the elevator shaft in sub-cellar

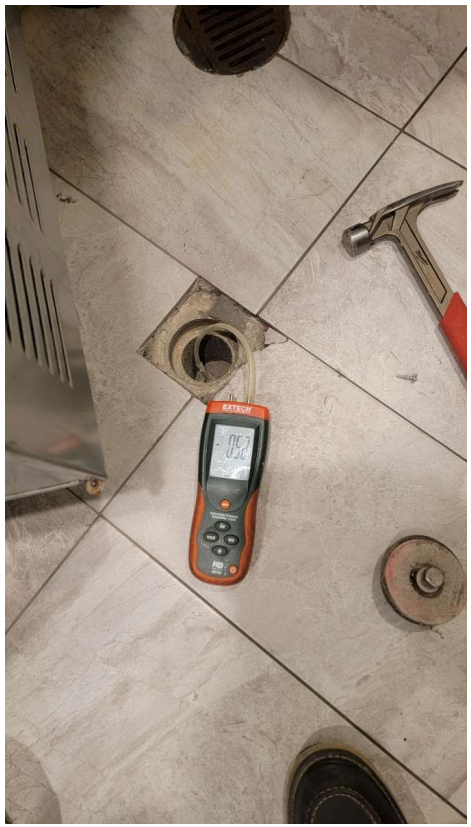


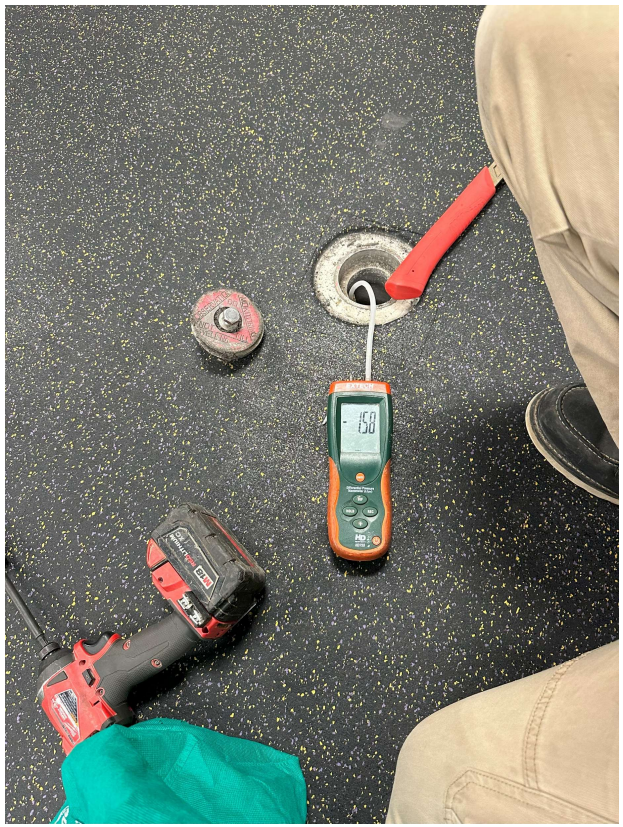
5- Outdoor air sampling in open lounge area on third floor

6- View of active telemetry system

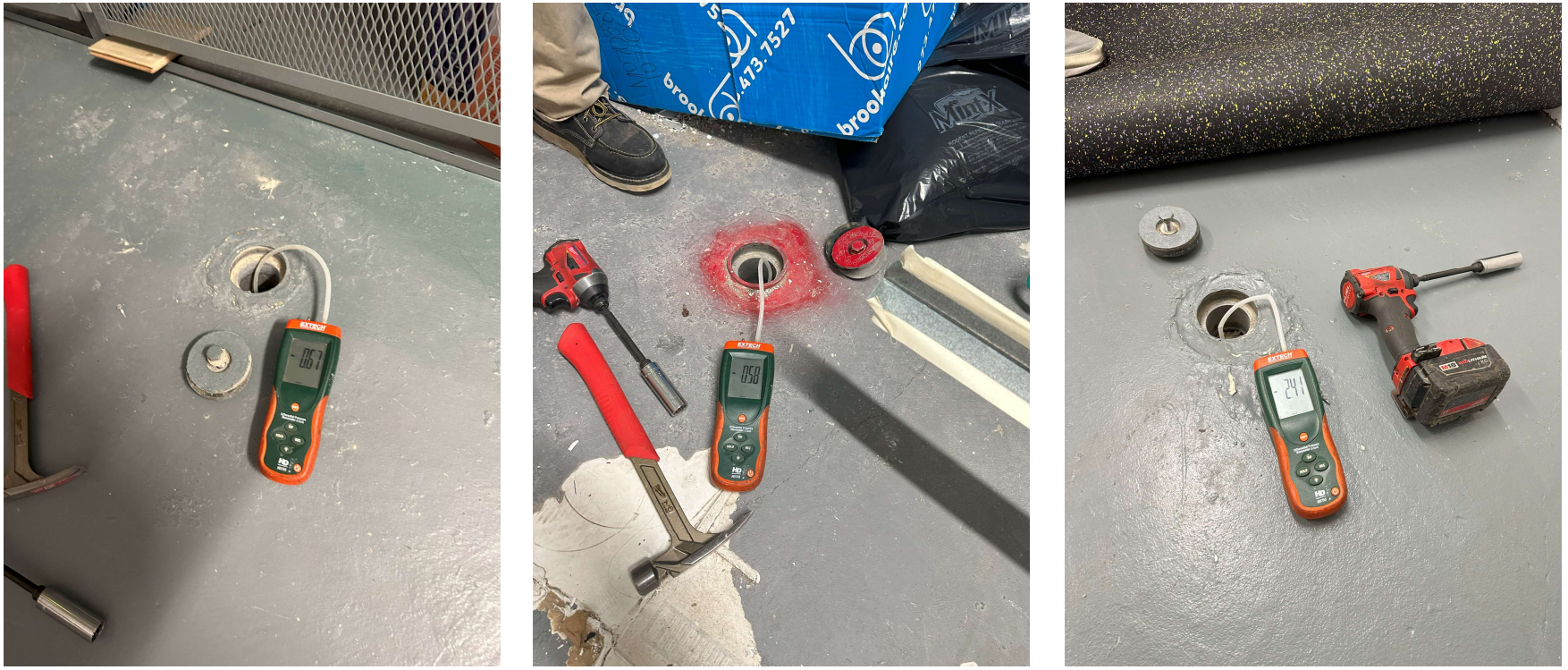
7- View of vacuum gauge at SSDS-2 blower

8- View of vacuum gauge at SSDS-1 blower

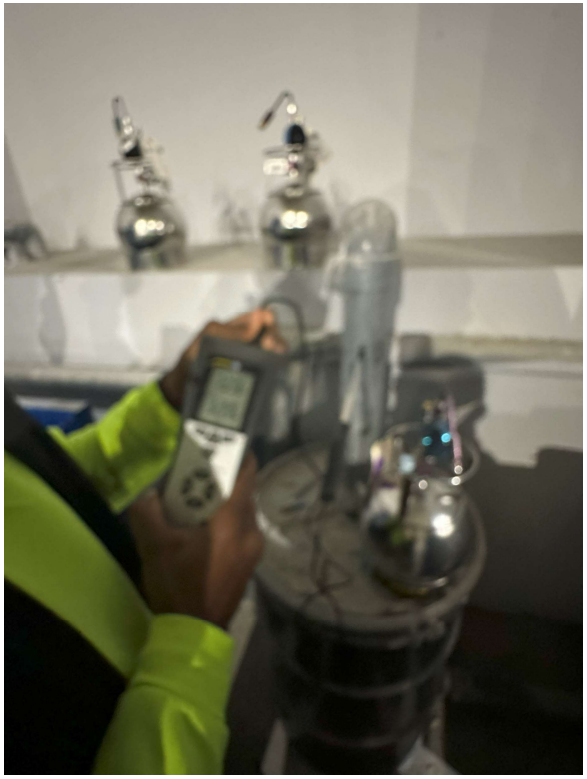




9- Sub-slab vacuum monitoring in cellar



10- Sub-slab vacuum monitoring in sub-cellar



11-View of effluent monitoring of organic vapors/air flow and GAC sampling

APPENDIX 2

NYSDOH Indoor Air Quality Questionnaire and Building Inventory

OSR – 3

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 Paul T Mathie Date/Time Prepared 3/14/23 10:00 AM

Preparer's Affiliation GES consultant Phone No. 631 2417165

Purpose of Investigation SVI post - SSDS start up

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: Kalov First Name: Igor

Address: 107-02 Queens Blvd

County: ______

Home Phone: 7189027915 Office Phone: ______

Number of Occupants/persons at this location 37+ customers in gym 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: ______

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: Condos

If multiple units, how many? 74

If the property is commercial, type?

Business Type(s) Gym, Vacant - retail-online

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

Other characteristics:

Number of floors 10 Building age 24 years

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

HVAC + AMVs

Airflow near source

HVAC + AMVs

Outdoor air infiltration

HVAC

Infiltration into air ducts

Unknown

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 partial Sub Cellar
c. Basement floor:	(concrete)	dirt	stone	other _____
d. Basement floor:	uncovered	(covered)	covered with Carpet for Gym
e. Concrete floor:	unsealed	sealed	sealed with Vapor barrier (partially)
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 (Cellar)	unfinished	partially finished (Slab Cellar)
j. Sump present?	Y / (N)		
k. Water in sump?	Y / N (not applicable)		

Basement/Lowest level depth below grade: 25 (feet) Sub-Cellar + Cellar

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

_____

_____

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	Stream 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: Gas

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.

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)**
Sub-cellar Basement	Storage for building residents
~~Cellar~~ 1st Floor	Gym Commercial + Gym Lobby
2nd Floor	Parking
3rd Floor	Residents
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

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

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

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / NA Please specify Electric back up heater

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

If yes, what types of solvents are used? _____

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

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

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

Is there a radon mitigation system for the building/structure? (Y) N Date of Installation: 2021
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) NA

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:

See As-build plans

First Floor:

See As-build plans.

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.

See As-build plan
+ SVI sampling plan

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: TVA Multi Rae

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
Subcellar	Paint 5gal+5gal		Sealed	See photo	0.0	Y
	Caulk tubes		Sealed	See photos	6.0	Y

* 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.

APPENDIX 3

Indoor and Outdoor Air Samples Laboratory Analytical Report

Technical Report

prepared for:

Hydro Tech Environmental (Brooklyn)
231 West 29th Street, Suite 1104
New York NY, 10001
Attention: Paul Matli

Report Date: 03/21/2023
Client Project ID: 220059 107-02 Queens Blvd., Queens, NY
York Project (SDG) No.: 23C0874

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: 03/21/2023
Client Project ID: 220059 107-02 Queens Blvd., Queens, NY
York Project (SDG) No.: 23C0874

Hydro Tech Environmental (Brooklyn)
231 West 29th Street, Suite 1104
New York NY, 10001
Attention: Paul Matli

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 March 15, 2023 and listed below. The project was identified as your project: **220059 107-02 Queens Blvd., Queens, NY**.

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
23C0874-01	AI-1 20230314	Indoor Ambient Air	03/14/2023	03/15/2023
23C0874-02	AI-2 20230314	Indoor Ambient Air	03/14/2023	03/15/2023
23C0874-03	AI-3 20230314	Indoor Ambient Air	03/14/2023	03/15/2023
23C0874-04	AI-4 20230314	Indoor Ambient Air	03/14/2023	03/15/2023
23C0874-05	AI-5 20230314	Indoor Ambient Air	03/14/2023	03/15/2023
23C0874-06	AO-1 20230314	Outdoor Ambient Ai	03/14/2023	03/15/2023

General Notes for York Project (SDG) No.: 23C0874

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:** 03/21/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **AI-1 20230314** **York Sample ID:** **23C0874-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 7:19 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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	0.69	1.007	EPA TO-15 Certifications:	03/20/2023 11:00	03/20/2023 22:10	VH
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.55	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.69	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.77	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.55	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.41	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.10	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.75	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
95-63-6	**1,2,4-Trimethylbenzene**	**0.99**		ug/m³	0.50	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.77	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.61	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.41	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.47	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.70	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.50	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
106-99-0	1,3-Butadiene	ND		ug/m³	0.67	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.61	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.47	1.007	EPA TO-15 Certifications:	03/20/2023 11:00	03/20/2023 22:10	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.61	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
123-91-1	1,4-Dioxane	ND		ug/m³	0.73	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
78-93-3	**2-Butanone**	**7.1**		ug/m³	0.30	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
591-78-6	* 2-Hexanone	ND		ug/m³	0.83	1.007	EPA TO-15 Certifications:	03/20/2023 11:00	03/20/2023 22:10	VH

Sample Information

Client Sample ID: AI-1 20230314 **York Sample ID:** 23C0874-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 7:19 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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	1.6	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
108-10-1	**4-Methyl-2-pentanone**	**0.58**		ug/m³	0.41	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
67-64-1	**Acetone**	**29**		ug/m³	0.48	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
107-13-1	Acrylonitrile	ND		ug/m³	0.22	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
71-43-2	**Benzene**	**0.68**		ug/m³	0.32	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
100-44-7	Benzyl chloride	ND		ug/m³	0.52	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
75-27-4	Bromodichloromethane	ND		ug/m³	0.67	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
75-25-2	Bromoform	ND		ug/m³	1.0	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
74-83-9	Bromomethane	ND	TO-CCV, TO-LCS-L	ug/m³	0.39	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
75-15-0	Carbon disulfide	ND		ug/m³	0.31	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
56-23-5	**Carbon tetrachloride**	**0.44**		ug/m³	0.16	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
108-90-7	Chlorobenzene	ND		ug/m³	0.46	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
75-00-3	Chloroethane	ND		ug/m³	0.27	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
67-66-3	**Chloroform**	**0.54**		ug/m³	0.49	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
74-87-3	**Chloromethane**	**1.4**		ug/m³	0.21	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.10	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.46	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
110-82-7	Cyclohexane	ND		ug/m³	0.35	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
124-48-1	Dibromochloromethane	ND		ug/m³	0.86	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
75-71-8	**Dichlorodifluoromethane**	**2.6**		ug/m³	0.50	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
141-78-6	* Ethyl acetate	ND		ug/m³	0.73	1.007	EPA TO-15 Certifications:	03/20/2023 11:00	03/20/2023 22:10	VH
100-41-4	**Ethyl Benzene**	**1.3**		ug/m³	0.44	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH

Sample Information

Client Sample ID: AI-1 20230314 **York Sample ID:** 23C0874-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 7:19 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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	CAL-E, TO-CCV, TO-LCS-L	ug/m³	1.1	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
67-63-0	**Isopropanol**	**91**	B	ug/m³	0.50	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
80-62-6	Methyl Methacrylate	ND		ug/m³	0.41	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.36	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
75-09-2	**Methylene chloride**	**1.5**		ug/m³	0.70	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
142-82-5	n-Heptane	ND		ug/m³	0.41	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
110-54-3	n-Hexane	ND		ug/m³	0.35	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
95-47-6	**o-Xylene**	**1.0**		ug/m³	0.44	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
179601-23-1	**p- & m- Xylenes**	**3.0**		ug/m³	0.87	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
622-96-8	*** p-Ethyltoluene**	**0.94**		ug/m³	0.50	1.007	EPA TO-15 Certifications:	03/20/2023 11:00	03/20/2023 22:10	VH
115-07-1	* Propylene	ND		ug/m³	0.17	1.007	EPA TO-15 Certifications:	03/20/2023 11:00	03/20/2023 22:10	VH
100-42-5	**Styrene**	**0.47**		ug/m³	0.43	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
127-18-4	Tetrachloroethylene	ND		ug/m³	0.68	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
109-99-9	*** Tetrahydrofuran**	**22**		ug/m³	0.59	1.007	EPA TO-15 Certifications:	03/20/2023 11:00	03/20/2023 22:10	VH
108-88-3	**Toluene**	**3.0**		ug/m³	0.38	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.40	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.46	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
79-01-6	Trichloroethylene	ND		ug/m³	0.14	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.4**		ug/m³	0.57	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
108-05-4	Vinyl acetate	ND		ug/m³	0.35	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH
593-60-2	Vinyl bromide	ND		ug/m³	0.44	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH

Sample Information

Client Sample ID: AI-1 20230314 **York Sample ID:** 23C0874-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 7:19 am	03/15/2023

Volatile Organics, EPA TO15 Full List **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
75-01-4	Vinyl Chloride	ND		ug/m³	0.13	1.007	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 22:10	VH

Sample Information

Client Sample ID: AI-2 20230314 **York Sample ID:** 23C0874-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 7:17 am	03/15/2023

Volatile Organics, EPA TO15 Full List **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	0.69	0.999	EPA TO-15 Certifications:	03/20/2023 11:00	03/20/2023 23:09	VH
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.55	0.999	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 23:09	VH
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.69	0.999	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 23:09	VH
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.77	0.999	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 23:09	VH
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.55	0.999	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 23:09	VH
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.40	0.999	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 23:09	VH
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.099	0.999	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 23:09	VH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.74	0.999	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 23:09	VH
95-63-6	**1,2,4-Trimethylbenzene**	**1.1**		ug/m³	0.49	0.999	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 23:09	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.77	0.999	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 23:09	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.60	0.999	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 23:09	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.40	0.999	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 23:09	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.46	0.999	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 23:09	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.70	0.999	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 23:09	VH
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.49	0.999	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/20/2023 23:09	VH

Sample Information

Client Sample ID: AI-2 20230314 **York Sample ID:** 23C0874-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 7:17 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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
106-99-0	1,3-Butadiene	ND		ug/m³	0.66	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.60	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.46	0.999	EPA TO-15 Certifications:	03/20/2023 11:00	03/20/2023 23:09	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.60	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
123-91-1	1,4-Dioxane	ND		ug/m³	0.72	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
78-93-3	**2-Butanone**	**5.9**		ug/m³	0.29	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
591-78-6	* 2-Hexanone	ND		ug/m³	0.82	0.999	EPA TO-15 Certifications:	03/20/2023 11:00	03/20/2023 23:09	VH
107-05-1	3-Chloropropene	ND		ug/m³	1.6	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
108-10-1	**4-Methyl-2-pentanone**	**0.45**		ug/m³	0.41	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
67-64-1	**Acetone**	**26**		ug/m³	0.47	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
107-13-1	Acrylonitrile	ND		ug/m³	0.22	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
71-43-2	**Benzene**	**0.70**		ug/m³	0.32	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
100-44-7	Benzyl chloride	ND		ug/m³	0.52	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
75-27-4	Bromodichloromethane	ND		ug/m³	0.67	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
75-25-2	Bromoform	ND		ug/m³	1.0	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
74-83-9	Bromomethane	ND	TO-CCV, TO-LCS-L	ug/m³	0.39	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
75-15-0	Carbon disulfide	ND		ug/m³	0.31	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
56-23-5	**Carbon tetrachloride**	**0.44**		ug/m³	0.16	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
108-90-7	Chlorobenzene	ND		ug/m³	0.46	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
75-00-3	Chloroethane	ND		ug/m³	0.26	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
67-66-3	**Chloroform**	**0.54**		ug/m³	0.49	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
74-87-3	**Chloromethane**	**1.5**		ug/m³	0.21	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH

Sample Information

Client Sample ID: AI-2 20230314 **York Sample ID:** 23C0874-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 7:17 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.099	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.45	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
110-82-7	Cyclohexane	ND		ug/m³	0.34	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
124-48-1	Dibromochloromethane	ND		ug/m³	0.85	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
75-71-8	**Dichlorodifluoromethane**	**2.8**		ug/m³	0.49	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
141-78-6	*** Ethyl acetate**	**0.72**		ug/m³	0.72	0.999	EPA TO-15 Certifications:	03/20/2023 11:00	03/20/2023 23:09	VH
100-41-4	**Ethyl Benzene**	**1.4**		ug/m³	0.43	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
87-68-3	Hexachlorobutadiene	ND	CAL-E, TO-CCV, TO-LCS-L	ug/m³	1.1	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
67-63-0	**Isopropanol**	**46**	B	ug/m³	0.49	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
80-62-6	Methyl Methacrylate	ND		ug/m³	0.41	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.36	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
75-09-2	**Methylene chloride**	**2.1**		ug/m³	0.69	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
142-82-5	**n-Heptane**	**0.41**		ug/m³	0.41	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
110-54-3	n-Hexane	ND		ug/m³	0.35	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
95-47-6	**o-Xylene**	**1.1**		ug/m³	0.43	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
179601-23-1	**p- & m- Xylenes**	**3.0**		ug/m³	0.87	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
622-96-8	*** p-Ethyltoluene**	**0.93**		ug/m³	0.49	0.999	EPA TO-15 Certifications:	03/20/2023 11:00	03/20/2023 23:09	VH
115-07-1	* Propylene	ND		ug/m³	0.17	0.999	EPA TO-15 Certifications:	03/20/2023 11:00	03/20/2023 23:09	VH
100-42-5	**Styrene**	**0.43**		ug/m³	0.43	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
127-18-4	Tetrachloroethylene	ND		ug/m³	0.68	0.999	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/20/2023 23:09	VH
109-99-9	*** Tetrahydrofuran**	**26**		ug/m³	0.59	0.999	EPA TO-15 Certifications:	03/20/2023 11:00	03/20/2023 23:09	VH

Sample Information

Client Sample ID: AI-2 20230314 **York Sample ID:** 23C0874-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 7:17 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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
108-88-3	**Toluene**	**3.2**		ug/m³	0.38	0.999	EPA TO-15	03/20/2023 11:00	03/20/2023 23:09	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.40	0.999	EPA TO-15	03/20/2023 11:00	03/20/2023 23:09	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.45	0.999	EPA TO-15	03/20/2023 11:00	03/20/2023 23:09	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.13	0.999	EPA TO-15	03/20/2023 11:00	03/20/2023 23:09	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.3**		ug/m³	0.56	0.999	EPA TO-15	03/20/2023 11:00	03/20/2023 23:09	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.35	0.999	EPA TO-15	03/20/2023 11:00	03/20/2023 23:09	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.44	0.999	EPA TO-15	03/20/2023 11:00	03/20/2023 23:09	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.13	0.999	EPA TO-15	03/20/2023 11:00	03/20/2023 23:09	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: AI-3 20230314 **York Sample ID:** 23C0874-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 7:14 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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	0.67	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.53	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.67	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.74	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.53	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.39	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.096	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.72	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: AI-3 20230314 **York Sample ID:** 23C0874-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 7:14 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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
95-63-6	**1,2,4-Trimethylbenzene**	**1.1**		ug/m³	0.48	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.75	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.58	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.39	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.45	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.68	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.48	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
106-99-0	1,3-Butadiene	ND		ug/m³	0.65	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.58	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.45	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.58	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
123-91-1	1,4-Dioxane	ND		ug/m³	0.70	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
78-93-3	**2-Butanone**	**13**		ug/m³	0.29	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
591-78-6	* 2-Hexanone	ND		ug/m³	0.80	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	1.5	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-10-1	**4-Methyl-2-pentanone**	**0.56**		ug/m³	0.40	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**29**		ug/m³	0.46	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.21	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**0.84**		ug/m³	0.31	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.50	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	0.65	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	1.0	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: AI-3 20230314 **York Sample ID:** 23C0874-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 7:14 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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
74-83-9	Bromomethane	ND	TO-CCV, TO-LCS-L	ug/m³	0.38	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
75-15-0	Carbon disulfide	ND		ug/m³	0.30	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
56-23-5	**Carbon tetrachloride**	**0.55**		ug/m³	0.15	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
108-90-7	Chlorobenzene	ND		ug/m³	0.45	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
75-00-3	Chloroethane	ND		ug/m³	0.26	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
67-66-3	**Chloroform**	**0.47**		ug/m³	0.47	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
74-87-3	**Chloromethane**	**1.5**		ug/m³	0.20	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.096	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.44	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
110-82-7	Cyclohexane	ND		ug/m³	0.33	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
124-48-1	Dibromochloromethane	ND		ug/m³	0.83	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
75-71-8	**Dichlorodifluoromethane**	**3.2**		ug/m³	0.48	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
141-78-6	* Ethyl acetate	ND		ug/m³	0.70	0.972	EPA TO-15 Certifications:	03/20/2023 11:00	03/21/2023 00:08	VH
100-41-4	**Ethyl Benzene**	**1.6**		ug/m³	0.42	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
87-68-3	Hexachlorobutadiene	ND	CAL-E, TO-CCV, TO-LCS-L	ug/m³	1.0	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
67-63-0	**Isopropanol**	**81**	B	ug/m³	0.48	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
80-62-6	Methyl Methacrylate	ND		ug/m³	0.40	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.35	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
75-09-2	**Methylene chloride**	**1.9**		ug/m³	0.68	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
142-82-5	**n-Heptane**	**0.56**		ug/m³	0.40	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH
110-54-3	**n-Hexane**	**0.58**		ug/m³	0.34	0.972	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 00:08	VH

Sample Information

Client Sample ID: AI-3 20230314 **York Sample ID:** 23C0874-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 7:14 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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
95-47-6	**o-Xylene**	**1.2**		ug/m³	0.42	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
179601-23-1	**p- & m- Xylenes**	**3.3**		ug/m³	0.84	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
622-96-8	*** p-Ethyltoluene**	**1.0**		ug/m³	0.48	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.17	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications:			
100-42-5	**Styrene**	**0.46**		ug/m³	0.41	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
127-18-4	Tetrachloroethylene	ND		ug/m³	0.66	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
109-99-9	*** Tetrahydrofuran**	**40**		ug/m³	0.57	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications:			
108-88-3	**Toluene**	**4.0**		ug/m³	0.37	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.39	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.44	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
79-01-6	Trichloroethylene	ND		ug/m³	0.13	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.4**		ug/m³	0.55	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-05-4	Vinyl acetate	ND		ug/m³	0.34	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
593-60-2	Vinyl bromide	ND		ug/m³	0.43	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-01-4	Vinyl Chloride	ND		ug/m³	0.12	0.972	EPA TO-15	03/20/2023 11:00	03/21/2023 00:08	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: AI-4 20230314 **York Sample ID:** 23C0874-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 8:14 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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	0.64	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:			

Sample Information

Client Sample ID: AI-4 20230314 **York Sample ID:** 23C0874-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 8:14 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.51	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.64	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.72	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.51	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.38	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.093	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.70	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.46	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.72	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.56	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.38	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.43	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.66	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.46	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	0.62	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.56	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.43	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.56	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	0.68	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**1.0**		ug/m³	0.28	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	0.77	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	1.5	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	**4-Methyl-2-pentanone**	**0.50**		ug/m³	0.38	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: AI-4 20230314 **York Sample ID:** 23C0874-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 8:14 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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
67-64-1	**Acetone**	**26**		ug/m³	0.45	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.20	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**0.54**		ug/m³	0.30	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.49	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	0.63	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	0.97	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND	TO-CCV, TO-LCS-L	ug/m³	0.36	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	Carbon disulfide	ND		ug/m³	0.29	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	**Carbon tetrachloride**	**0.53**		ug/m³	0.15	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.43	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	Chloroethane	ND		ug/m³	0.25	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	**Chloroform**	**1.3**		ug/m³	0.46	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	**Chloromethane**	**1.6**		ug/m³	0.19	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.093	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.43	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	Cyclohexane	ND		ug/m³	0.32	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	0.80	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	**Dichlorodifluoromethane**	**3.0**		ug/m³	0.46	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	0.68	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:			
100-41-4	Ethyl Benzene	ND		ug/m³	0.41	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
87-68-3	Hexachlorobutadiene	ND	CAL-E, TO-CCV, TO-LCS-L	ug/m³	1.0	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: AI-4 20230314 **York Sample ID:** 23C0874-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 8:14 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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
67-63-0	**Isopropanol**	**100**	B	ug/m³	0.46	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
80-62-6	Methyl Methacrylate	ND		ug/m³	0.38	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.34	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-09-2	**Methylene chloride**	**1.5**		ug/m³	0.65	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
142-82-5	n-Heptane	ND		ug/m³	0.38	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-54-3	n-Hexane	ND		ug/m³	0.33	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-47-6	o-Xylene	ND		ug/m³	0.41	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.82	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.46	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.16	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.40	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
127-18-4	Tetrachloroethylene	ND		ug/m³	0.64	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
109-99-9	*** Tetrahydrofuran**	**0.58**		ug/m³	0.55	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications:			
108-88-3	**Toluene**	**1.5**		ug/m³	0.35	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.37	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.43	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
79-01-6	Trichloroethylene	ND		ug/m³	0.13	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.4**		ug/m³	0.53	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-05-4	Vinyl acetate	ND		ug/m³	0.33	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
593-60-2	Vinyl bromide	ND		ug/m³	0.41	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-01-4	Vinyl Chloride	ND		ug/m³	0.12	0.939	EPA TO-15	03/20/2023 11:00	03/21/2023 01:07	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: AI-5 20230314 **York Sample ID:** 23C0874-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 7:23 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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	0.63	0.921	EPA TO-15 Certifications:	03/20/2023 11:00	03/21/2023 02:06	VH
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.50	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.63	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.71	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.50	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.37	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.091	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.68	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
95-63-6	**1,2,4-Trimethylbenzene**	**0.91**		ug/m³	0.45	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.71	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.55	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.37	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.43	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.64	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.45	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
106-99-0	1,3-Butadiene	ND		ug/m³	0.61	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.55	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.43	0.921	EPA TO-15 Certifications:	03/20/2023 11:00	03/21/2023 02:06	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.55	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
123-91-1	1,4-Dioxane	ND		ug/m³	0.66	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
78-93-3	**2-Butanone**	**1.4**		ug/m³	0.27	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH
591-78-6	* 2-Hexanone	ND		ug/m³	0.75	0.921	EPA TO-15 Certifications:	03/20/2023 11:00	03/21/2023 02:06	VH
107-05-1	3-Chloropropene	ND		ug/m³	1.4	0.921	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 02:06	VH

Sample Information

Client Sample ID: AI-5 20230314 **York Sample ID:** 23C0874-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 7:23 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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
108-10-1	**4-Methyl-2-pentanone**	**1.2**		ug/m³	0.38	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**29**		ug/m³	0.44	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	0.20	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**0.47**		ug/m³	0.29	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	0.48	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	0.62	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	0.95	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND	TO-CCV, TO-LCS-L	ug/m³	0.36	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	Carbon disulfide	ND		ug/m³	0.29	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	**Carbon tetrachloride**	**0.52**		ug/m³	0.14	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	0.42	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	0.24	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	**Chloroform**	**0.72**		ug/m³	0.45	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	**Chloromethane**	**1.4**		ug/m³	0.19	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.091	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.42	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	Cyclohexane	ND		ug/m³	0.32	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ug/m³	0.78	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	**Dichlorodifluoromethane**	**2.6**		ug/m³	0.46	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
141-78-6	*** Ethyl acetate**	**17**		ug/m³	0.66	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:			
100-41-4	**Ethyl Benzene**	**13**		ug/m³	0.40	0.921	EPA TO-15	03/20/2023 11:00	03/21/2023 02:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: AI-5 20230314 **York Sample ID:** 23C0874-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 7:23 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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	CAL-E, TO-CCV, TO-LCS-L	ug/m³	0.98	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
67-63-0	**Isopropanol**	**71**	B	ug/m³	0.45	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
80-62-6	Methyl Methacrylate	ND		ug/m³	0.38	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.33	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
75-09-2	**Methylene chloride**	**1.4**		ug/m³	0.64	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
142-82-5	**n-Heptane**	**0.38**		ug/m³	0.38	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
110-54-3	n-Hexane	ND		ug/m³	0.32	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
95-47-6	**o-Xylene**	**9.8**		ug/m³	0.40	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
179601-23-1	**p- & m- Xylenes**	**38**		ug/m³	0.80	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
622-96-8	*** p-Ethyltoluene**	**0.68**		ug/m³	0.45	0.921	EPA TO-15 Certifications:	03/20/2023 11:00	03/21/2023 02:06	VH
115-07-1	* Propylene	ND		ug/m³	0.16	0.921	EPA TO-15 Certifications:	03/20/2023 11:00	03/21/2023 02:06	VH
100-42-5	Styrene	ND		ug/m³	0.39	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
127-18-4	Tetrachloroethylene	ND		ug/m³	0.62	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.54	0.921	EPA TO-15 Certifications:	03/20/2023 11:00	03/21/2023 02:06	VH
108-88-3	**Toluene**	**1.4**		ug/m³	0.35	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.37	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.42	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
79-01-6	Trichloroethylene	ND		ug/m³	0.12	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.3**		ug/m³	0.52	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
108-05-4	Vinyl acetate	ND		ug/m³	0.32	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
593-60-2	Vinyl bromide	ND		ug/m³	0.40	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH
75-01-4	Vinyl Chloride	ND		ug/m³	0.12	0.921	EPA TO-15 Certifications:	03/20/2023 11:00 NELAC-NY12058,NJDEP-Queens	03/21/2023 02:06	VH

Sample Information

Client Sample ID: AI-5 20230314 **York Sample ID:** 23C0874-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Indoor Ambient Air	March 14, 2023 7:23 am	03/15/2023

Sample Information

Client Sample ID: AO-1 20230314 **York Sample ID:** 23C0874-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Outdoor Ambient Air	March 14, 2023 8:17 am	03/15/2023

Volatile Organics, EPA TO15 Full List **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	0.73	1.066	EPA TO-15 Certifications:	03/20/2023 11:00	03/21/2023 03:06	VH
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.58	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.73	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.82	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.58	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.43	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.11	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.79	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.52	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.82	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.64	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.43	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.49	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.75	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.52	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
106-99-0	1,3-Butadiene	ND		ug/m³	0.71	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.64	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.49	1.066	EPA TO-15 Certifications:	03/20/2023 11:00	03/21/2023 03:06	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.64	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH

Sample Information

Client Sample ID: AO-1 20230314 **York Sample ID:** 23C0874-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Outdoor Ambient Air	March 14, 2023 8:17 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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
123-91-1	1,4-Dioxane	ND		ug/m³	0.77	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
78-93-3	**2-Butanone**	**10**		ug/m³	0.31	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
591-78-6	* 2-Hexanone	ND		ug/m³	0.87	1.066	EPA TO-15 Certifications:	03/20/2023 11:00	03/21/2023 03:06	VH
107-05-1	3-Chloropropene	ND		ug/m³	1.7	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.44	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
67-64-1	**Acetone**	**16**		ug/m³	0.51	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
107-13-1	Acrylonitrile	ND		ug/m³	0.23	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
71-43-2	**Benzene**	**0.61**		ug/m³	0.34	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
100-44-7	Benzyl chloride	ND		ug/m³	0.55	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
75-27-4	Bromodichloromethane	ND		ug/m³	0.71	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
75-25-2	Bromoform	ND		ug/m³	1.1	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
74-83-9	Bromomethane	ND	TO-CCV, TO-LCS-L	ug/m³	0.41	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
75-15-0	Carbon disulfide	ND		ug/m³	0.33	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
56-23-5	**Carbon tetrachloride**	**0.47**		ug/m³	0.17	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
108-90-7	Chlorobenzene	ND		ug/m³	0.49	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
75-00-3	Chloroethane	ND		ug/m³	0.28	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
67-66-3	Chloroform	ND		ug/m³	0.52	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
74-87-3	**Chloromethane**	**1.6**		ug/m³	0.22	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.11	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.48	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
110-82-7	Cyclohexane	ND		ug/m³	0.37	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH
124-48-1	Dibromochloromethane	ND		ug/m³	0.91	1.066	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	03/20/2023 11:00	03/21/2023 03:06	VH

Sample Information

Client Sample ID: AO-1 20230314 **York Sample ID:** 23C0874-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Outdoor Ambient Air	March 14, 2023 8:17 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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
75-71-8	**Dichlorodifluoromethane**	**3.3**		ug/m³	0.53	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	0.77	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications:			
100-41-4	**Ethyl Benzene**	**0.83**		ug/m³	0.46	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
87-68-3	Hexachlorobutadiene	ND	CAL-E, TO-CCV, TO-LCS-L	ug/m³	1.1	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-63-0	**Isopropanol**	**5.8**	B	ug/m³	0.52	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
80-62-6	Methyl Methacrylate	ND		ug/m³	0.44	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.38	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-09-2	**Methylene chloride**	**1.3**		ug/m³	0.74	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
142-82-5	n-Heptane	ND		ug/m³	0.44	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-54-3	**n-Hexane**	**0.38**		ug/m³	0.38	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-47-6	**o-Xylene**	**0.51**		ug/m³	0.46	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
179601-23-1	**p- & m- Xylenes**	**1.6**		ug/m³	0.93	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.52	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.18	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.45	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
127-18-4	Tetrachloroethylene	ND		ug/m³	0.72	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
109-99-9	*** Tetrahydrofuran**	**29**		ug/m³	0.63	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications:			
108-88-3	**Toluene**	**2.3**		ug/m³	0.40	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.42	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.48	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			
79-01-6	Trichloroethylene	ND		ug/m³	0.14	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: AO-1 20230314 **York Sample ID:** 23C0874-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0874	220059 107-02 Queens Blvd., Queens, NY	Outdoor Ambient Air	March 14, 2023 8:17 am	03/15/2023

Volatile Organics, EPA TO15 Full List

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
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.5**		ug/m³	0.60	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.38	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.47	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.14	1.066	EPA TO-15	03/20/2023 11:00	03/21/2023 03:06	VH
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Analytical Batch Summary

Batch ID: BC31384 **Preparation Method:** EPA TO15 PREP **Prepared By:** VH

YORK Sample ID	Client Sample ID	Preparation Date
23C0874-01	AI-1 20230314	03/20/23
23C0874-02	AI-2 20230314	03/20/23
23C0874-03	AI-3 20230314	03/20/23
23C0874-04	AI-4 20230314	03/20/23
23C0874-05	AI-5 20230314	03/20/23
23C0874-06	AO-1 20230314	03/20/23
BC31384-BLK1	Blank	03/20/23
BC31384-BS1	LCS	03/20/23
BC31384-DUP1	Duplicate	03/20/23

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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31384 - EPA TO15 PREP											
Blank (BC31384-BLK1)											Prepared & Analyzed: 03/20/2023
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	0.66	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								

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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31384 - EPA TO15 PREP											
Blank (BC31384-BLK1)								Prepared & Analyzed: 03/20/2023			
n-Heptane	ND	0.41	ug/m³								
n-Hexane	ND	0.35	"								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.68	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.13	"								
LCS (BC31384-BS1)								Prepared & Analyzed: 03/20/2023			
1,1,1,2-Tetrachloroethane	9.72		ppbv	10.0		97.2	70-130				
1,1,1-Trichloroethane	11.2		"	10.0		112	70-130				
1,1,2,2-Tetrachloroethane	11.1		"	10.0		111	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6		"	10.0		106	70-130				
1,1,2-Trichloroethane	9.03		"	10.0		90.3	70-130				
1,1-Dichloroethane	10.6		"	10.0		106	70-130				
1,1-Dichloroethylene	11.8		"	10.0		118	70-130				
1,2,4-Trichlorobenzene	8.13		"	10.0		81.3	70-130				
1,2,4-Trimethylbenzene	8.17		"	10.0		81.7	70-130				
1,2-Dibromoethane	9.19		"	10.0		91.9	70-130				
1,2-Dichlorobenzene	7.98		"	10.0		79.8	70-130				
1,2-Dichloroethane	11.4		"	10.0		114	70-130				
1,2-Dichloropropane	8.93		"	10.0		89.3	70-130				
1,2-Dichlorotetrafluoroethane	10.1		"	10.0		101	70-130				
1,3,5-Trimethylbenzene	8.28		"	10.0		82.8	70-130				
1,3-Butadiene	11.0		"	10.0		110	70-130				
1,3-Dichlorobenzene	8.29		"	10.0		82.9	70-130				
1,3-Dichloropropane	9.48		"	10.0		94.8	70-130				
1,4-Dichlorobenzene	8.06		"	10.0		80.6	70-130				
1,4-Dioxane	11.2		"	10.0		112	70-130				
2-Butanone	10.8		"	10.0		108	70-130				
2-Hexanone	8.23		"	10.0		82.3	70-130				
3-Chloropropene	11.8		"	10.0		118	70-130				
4-Methyl-2-pentanone	8.79		"	10.0		87.9	70-130				
Acetone	9.09		"	10.0		90.9	70-130				
Acrylonitrile	12.5		"	10.0		125	70-130				
Benzene	7.89		"	10.0		78.9	70-130				
Benzyl chloride	8.78		"	10.0		87.8	70-130				
Bromodichloromethane	9.65		"	10.0		96.5	70-130				
Bromoform	9.09		"	10.0		90.9	70-130				
Bromomethane	6.97		"	10.0		69.7	70-130	Low Bias			
Carbon disulfide	10.4		"	10.0		104	70-130				

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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31384 - EPA TO15 PREP											
LCS (BC31384-BS1)								Prepared & Analyzed: 03/20/2023			
Carbon tetrachloride	9.91		ppbv	10.0		99.1	70-130				
Chlorobenzene	10.3		"	10.0		103	70-130				
Chloroethane	11.6		"	10.0		116	70-130				
Chloroform	10.8		"	10.0		108	70-130				
Chloromethane	10.5		"	10.0		105	70-130				
cis-1,2-Dichloroethylene	11.9		"	10.0		119	70-130				
cis-1,3-Dichloropropylene	10.2		"	10.0		102	70-130				
Cyclohexane	9.76		"	10.0		97.6	70-130				
Dibromochloromethane	9.35		"	10.0		93.5	70-130				
Dichlorodifluoromethane	10.9		"	10.0		109	70-130				
Ethyl acetate	11.1		"	10.0		111	70-130				
Ethyl Benzene	10.8		"	10.0		108	70-130				
Hexachlorobutadiene	5.64		"	10.0		56.4	70-130	Low Bias			
Isopropanol	10.4		"	10.0		104	70-130				
Methyl Methacrylate	8.78		"	10.0		87.8	70-130				
Methyl tert-butyl ether (MTBE)	11.7		"	10.0		117	70-130				
Methylene chloride	10.2		"	10.0		102	70-130				
n-Heptane	7.75		"	10.0		77.5	70-130				
n-Hexane	9.65		"	10.0		96.5	70-130				
o-Xylene	8.03		"	10.0		80.3	70-130				
p- & m- Xylenes	14.6		"	20.0		72.8	70-130				
p-Ethyltoluene	7.92		"	10.0		79.2	70-130				
Propylene	12.4		"	10.0		124	70-130				
Styrene	7.68		"	10.0		76.8	70-130				
Tetrachloroethylene	9.81		"	10.0		98.1	70-130				
Tetrahydrofuran	11.6		"	10.0		116	70-130				
Toluene	8.76		"	10.0		87.6	70-130				
trans-1,2-Dichloroethylene	11.4		"	10.0		114	70-130				
trans-1,3-Dichloropropylene	10.2		"	10.0		102	70-130				
Trichloroethylene	10.0		"	10.0		100	70-130				
Trichlorofluoromethane (Freon 11)	10.7		"	10.0		107	70-130				
Vinyl acetate	8.23		"	10.0		82.3	70-130				
Vinyl bromide	11.9		"	10.0		119	70-130				
Vinyl Chloride	9.13		"	10.0		91.3	70-130				

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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31384 - EPA TO15 PREP											
Duplicate (BC31384-DUP1)	*Source sample: 23C0735-09 (Duplicate)								Prepared & Analyzed: 03/20/2023		
1,1,1,2-Tetrachloroethane	ND	0.66	ug/m³		ND					25	
1,1,1-Trichloroethane	ND	0.52	"		ND					25	
1,1,2,2-Tetrachloroethane	ND	0.66	"		ND					25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.74	"		ND					25	
1,1,2-Trichloroethane	ND	0.52	"		ND					25	
1,1-Dichloroethane	ND	0.39	"		ND					25	
1,1-Dichloroethylene	ND	0.095	"		ND					25	
1,2,4-Trichlorobenzene	ND	0.71	"		ND					25	
1,2,4-Trimethylbenzene	ND	0.47	"		ND					25	
1,2-Dibromoethane	ND	0.74	"		ND					25	
1,2-Dichlorobenzene	ND	0.58	"		ND					25	
1,2-Dichloroethane	ND	0.39	"		ND					25	
1,2-Dichloropropane	ND	0.44	"		ND					25	
1,2-Dichlorotetrafluoroethane	ND	0.67	"		ND					25	
1,3,5-Trimethylbenzene	ND	0.47	"		ND					25	
1,3-Butadiene	ND	0.64	"		ND					25	
1,3-Dichlorobenzene	ND	0.58	"		ND					25	
1,3-Dichloropropane	ND	0.44	"		ND					25	
1,4-Dichlorobenzene	ND	0.58	"		ND					25	
1,4-Dioxane	ND	0.69	"		ND					25	
2-Butanone	1.2	0.28	"		1.3				11.2	25	
2-Hexanone	ND	0.79	"		ND					25	
3-Chloropropene	ND	1.5	"		ND					25	
4-Methyl-2-pentanone	0.43	0.39	"		0.43				0.00	25	
Acetone	9.9	0.46	"		10				1.37	25	
Acrylonitrile	ND	0.21	"		ND					25	
Benzene	0.92	0.31	"		0.92				0.00	25	
Benzyl chloride	ND	0.50	"		ND					25	
Bromodichloromethane	ND	0.64	"		ND					25	
Bromoform	ND	0.99	"		ND					25	
Bromomethane	ND	0.37	"		ND					25	
Carbon disulfide	ND	0.30	"		ND					25	
Carbon tetrachloride	0.48	0.15	"		0.48				0.00	25	
Chlorobenzene	ND	0.44	"		ND					25	
Chloroethane	ND	0.25	"		ND					25	
Chloroform	ND	0.47	"		ND					25	
Chloromethane	1.4	0.20	"		1.5				4.14	25	
cis-1,2-Dichloroethylene	0.30	0.095	"		0.27				13.3	25	
cis-1,3-Dichloropropylene	ND	0.44	"		ND					25	
Cyclohexane	ND	0.33	"		ND					25	
Dibromochloromethane	ND	0.82	"		ND					25	
Dichlorodifluoromethane	2.6	0.47	"		2.7				3.64	25	
Ethyl acetate	ND	0.69	"		ND					25	
Ethyl Benzene	0.71	0.42	"		0.75				5.71	25	
Hexachlorobutadiene	ND	1.0	"		ND					25	
Isopropanol	25	0.47	"		25				1.31	25	
Methyl Methacrylate	ND	0.39	"		ND					25	
Methyl tert-butyl ether (MTBE)	ND	0.35	"		ND					25	
Methylene chloride	1.2	0.67	"		1.2				0.00	25	
n-Heptane	ND	0.39	"		ND					25	

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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31384 - EPA TO15 PREP											
Duplicate (BC31384-DUP1)	*Source sample: 23C0735-09 (Duplicate)								Prepared & Analyzed: 03/20/2023		
n-Hexane	0.85	0.34	ug/m³		0.85				0.00	25	
o-Xylene	0.54	0.42	"		0.58				7.41	25	
p- & m- Xylenes	1.3	0.83	"		1.4				3.08	25	
p-Ethyltoluene	ND	0.47	"		ND					25	
Propylene	ND	0.17	"		ND					25	
Styrene	ND	0.41	"		ND					25	
Tetrachloroethylene	1.2	0.65	"		1.2				0.00	25	
Tetrahydrofuran	0.74	0.57	"		0.76				3.77	25	
Toluene	2.5	0.36	"		2.6				4.26	25	
trans-1,2-Dichloroethylene	ND	0.38	"		ND					25	
trans-1,3-Dichloropropylene	ND	0.44	"		ND					25	
Trichloroethylene	ND	0.13	"		ND					25	
Trichlorofluoromethane (Freon 11)	1.3	0.54	"		1.3				0.00	25	
Vinyl acetate	ND	0.34	"		ND					25	
Vinyl bromide	ND	0.42	"		ND					25	
Vinyl Chloride	ND	0.12	"		ND					25	

Sample and Data Qualifiers Relating to This Work Order

TO-LCS-L	The result reported for this compound may be biased low due to its behavior in the analysis batch LCS where it recovered less 70% of the expected value.
TO-CCV	The value reported is ESTIMATED for this compound due to its behavior during continuing calibration verification (>30% Difference from initial calibration).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

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.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

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. 23C0874

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: Hydrotech Corp	Company: SAME	Company: SAME
Address: 231 24th St New York NY	Address:	Address:
Phone:	Phone:	Phone:
Contact: Paul Mathis 631 241 7165	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 22059

YOUR Project Name: 107-02 Queens Blvd Queens NY

YOUR PO#: 53000

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) Donovan Edwards

Air Matrix Codes

- AI - Indoor Ambient Air
- AO - Outdoor Amb. Air
- AE - Vapor Extraction Well/ Process Gas/Effluent
- AS - Soil Vapor/Sub-Slab

Samples From

- ✓ New York
- New Jersey
- Connecticut
- Pennsylvania
- Other

Report / EDD Type (circle selections)

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

YORK Reg. Comp.

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

Certified Canisters: Batch ___ Individual ✓

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ✓ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
AI-1 20230314	3/14/23 7:19	AI	-30	-10	23994	7082	EPA 10-15
AI-2	7:17	"		-10	23997	3541	
AI-3	7:14	"		-10	4920	7416	
AI-4	8:14	"		-9	28852	13588	
AI-5	7:23	"		-11	01840	13564	
AO-1	8:17	AO		-10	37793	6873	

Comments:

Detection Limits Required

≤ 1 ug/m³ ___ NYSDEC V1 Limits ___

Routine Survey ___ Other 0.2 MJ/M³

Sampling Media

- ✓ 6 Liter Canister
- Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Paul Edwards	3/15 9:05A				
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
				Mark	03/15/23 9:05 AM

APPENDIX 4

DUSR

Date: April 14th, 2023

Mr. Paul I. Matli, Ph.D., P.G. Project Manager
Hydro Tech Environmental Engineering
And Geology, DPC
231 West 29th Street, Suite 1104
New York, NY 10001

Re: Data Usability Summary Reports and Quality Assurance Validation Analyses for York Analytical Laboratories Project **(SDGs) No: 23C0874**

Client Project ID: 220059 107-02 Queens Boulevard, Queens, NY

Dear Mr. Matli,

I thank you for your confidence in our data validation services and look forward to the growth of our business relationship. I Have enclosed with this letter the data usability summary reports (DUSRs) and data validation summaries for the above referenced laboratory sample delivery group (SDG).

The overall evaluation of the SDG # 23C0874 displays good degree of confidence and acceptance in accordance with the guidelines in the USEPA National Functional Guidelines and the method and QC Criteria specified in NYSDEC ASP Documents except for some qualified results that are identified in the validation summaries based solely on the stated above validation guidance criteria. However, the qualified data (Bias low, Bias High, Unreliable or unusable) may be subject to the user's reconsideration or determination in the circumstances of obtaining additional information that is not contained in the data validation criteria.

If you have any questions or comments regarding any of the attached data usability summary reports and or the data validation summaries, please do not hesitate to contact me at (413) 875-5049 or via email at hanibaltayeh@gmail.com.

Sincerely,

Hanibal C. Tayeh, Ph.D.
Data Validation and Forensic Geochemistry Expert

Files: DUSR-HTE-220059-107-02 Queens Boulevard-Queens-NY-23C0874

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DATA USABILITY SUMMARY REPORT (DUSR)

Site Location: *220059-107-02 Queens Boulevard-Queens-NY*

York Analytical Laboratories, Inc

Laboratory (SDG) *# 23C0874*

Project No. 220059

Prepared for:

Mr. Paul I. Matli, Ph.D., P.G. Project Manager
Hydro Tech Environmental Engineering
And Geology, DPC
231 West 29th Street, Suite 1104
New York, NY 10001

Prepared by:

Hanibal Tayeh, Ph.D.
Data Validation and Forensic Geochemistry Expert

On

April 14th, 2023

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CONTENTS

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1. GLOSSARY OF ACRONYMS & TERMS

The following acronyms and terms may have been used in the descriptive process of the Organic and Inorganic Data Validation.

Acronyms:

AA	Atomic absorption, flame technique
BHC	Hexachlorocyclohexane
BFB	Bromofluorobenzene (volatile instrument performance check)
BNA	Base/Neutral/Acid
CARD	CLP Analytical Results Database
CCB	Continuing Calibration Blank
CCCs	Calibration Check Compounds
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CF	Calibration Factor
CLP	Contract Laboratory Program
CN	Cyanide
COC	Chain of Custody
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
CV	Cold Vapor
%D	Percent Difference
DAS	Delivery of Analytical Services
DCAA	2,4-Dichlophenylacetic acid
DCB	Decachlorobiphenyl (Pesticide/PCB/ surrogate compound)
DFTPP	Decafluorotriphenylphosphine (semivolatile instrument performance check)
DSF	Data Summary Form
DVA	Data Validation Assessment
ECD	Electron-Capture Detector
EICP	Extended Ion Current Profile
EPA	United States Environmental Protection Agency
FAA	Atomic absorption, furnace technique
FID	Flame ionization detector
FNP	1-Fluoronaphthalene
GC	Gas Chromatography
GC/EC	Gas Chromatography/Electron Capture
GC/MS	Gas Chromatography/Mass Spectra
GPC	Gel Permeation Chromatography (Clean Up)
ICAL	Initial Calibration
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma
ICS	Interference Check Sample
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit

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IRDA	Inorganic Regional Data Assessment
IS	Internal Standard
LCS	Laboratory Control Sample
LCL	Lower Control Limit
MCL	Maximum Contamination Level
MDL	Method Detection Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
m/z	The ratio of mass (m) to charge (z) of ions measured by GC/MS
OADS	Organic Analysis Data Sheet (Form 1)
ORDA	Organic Regional Data Assessment
PB	Preparation Blank
PCB	Poly Chlorinated Biphenyl
PEM	Performance Evaluation Mixture
PFAS	Polyfluorinated Alkyl Substances (PFAS analytes are listed below)
PRP	Potential Responsible Party
QA/QC	Quality Assurance/Quality Control
QAPjP	Quality Assurance Project Plan
QC	Quality Control
%R	Percent Recovery of spiked amount
RAS	Routine Analytical Services
RF	Response Factor
RIC	Reconstructed Ion Chromatogram
RPD	Relative Percent Difference
RRF	Relative Response Factor
RSD	Relative Standard Deviation
RT	Retention Time
RTW	Retention Time Window
SDG	Sample Delivery Group
SMC	System Monitoring Compound
SMO	Sample Management Office
SOP	Standard Operation Procedures
SOW	Statement of Work
SPCCs	System Performance Check Compounds
SSL	Samples Shipping Log
SVOA	Semivolatile Organic Analyte
TAL	Target Analyte List
TCL	Target Compound List
TCX	Tetrachloro-m-Xylene (Pesticide/PCB surrogate compound)
TIC	Tentatively Identified Compound
TPH	Total Petroleum Hydrocarbons
TR	Traffic Report
UCL	Upper Control Limit
VOA	Volatile Organic Analyte
VTSR	Validated Time of Sample Receipt

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Polyfluorinated Alkyl Substances (PFAS) Acronyms

PFBA	Perfluorobutanoic acid
PFPeA	Perfluoropentanoic acid
PFHxA	Perfluorohexanoic acid
PFHpA	Perfluoroheptanoic acid
PFOA	Perfluorooctanoic acid
PFNA	Perfluorononanoic acid
PFDA	Perfluorodecanoic acid
PFUnA	Perfluoroundecanoic acid
PFDoA	Perfluorododecanoic acid
PFTriA or PFTrDA	Perfluorotridecanoic acid
PFTeA or PFTA	Perfluorotetradecanoic acid
PFBS	Perfluorobutanesulfonic acid
PFPeS	Perfluoropentanesulfonic acid
PFHxS	Perfluorohexanesulfonic acid
PFHpS	Perfluoroheptanesulfonic acid
PFOS	Perfluorooctanesulfonic acid
PFNS	Perfluorononanesulfonic acid
PFDS	Perfluorodecanesulfonic acid
FOSA	Perfluorooctane Sulfonamide
NMeFOSAA	N-methyl perfluorooctane sulfonamidoacetic acid
NEtFOSAA	N-ethyl perfluorooctane sulfonamidoacetic acid
4:2 FTS or 4:2	1H, 1H, 2H, 2H-perfluorohexanesulfonic acid
6:2 FTS or 6:2	1H, 1H, 2H, 2H-perfluorooctanesulfonic acid or 6:2 Fluorotelomersulfonate
8:2 FTS or 8:2	1H, 1H, 2H, 2H-perfluorodecanesulfonic acid or 8:2 Fluorotelomersulfonate

Terms:

Associated Samples: Any sample related to a particular QC analysis.

Case: A finite, usually predetermined number of samples collected over a given time period for a particular site. A Case consists of one or more Sample Delivery Group(s).

Continuing Calibration Blank (CCB): A deionized water sample run every ten (10) samples designed to detect any carryover contamination.

Continuing Calibration Verification (CCV): A deionized water sample run every ten (10) samples designed to detect any carryover contamination.

Contract Compliance Screening (CCS): A process in which the SMO inspects the data for contractual compliance and provides EMSL-LV laboratories and the Regions with their findings.

Contractual Holding Time: The time from VTSR (validated time of sample receipt) to laboratory extraction and /or analysis.

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Data Validation Qualifier (DVQ): This refers to the column on the data summary form in which EPA Region III and other qualifiers have been placed by the data validator.

Data Validation Result (DVR): This refers to the column on the data summary form used to report results that have been modified by the data validator. A result in the DVR column that is qualified “U” indicates a modification of the reporting limit.

Field Blank Field blanks are intended to identify contaminants that may have been introduced in the field. Examples are rinsate blank (RB), field blanks (FB) and trip blank (TB).

Field Duplicate: A duplicate sample generated in the field; not in the laboratory.

Initial Calibration (ICAL): The establishment of a calibration curve with the appropriate number of standards and concentration ranges. The calibration curve plots absorbances and/or emissions versus concentration of the standards.

Initial Calibration Blank (ICB): First blank run after the calibration curve.

Initial Calibration Verification (ICV): First standard run after the calibration curve.

Matrix Spike/Matrix Spike Duplicate (MS/MSD): Introduction of a known concentration of a compound into a sample to provide information about the effect of sample matrix on the extraction and/or measurement methodology.

Post Digestion Spike: The addition of known amount of standard after digestion. (Also identified as analytical spike, or spike, for furnace analyses).

Preparation Blank (PB): Blank taken through the digestion process to detect internal laboratory contamination.

Performance Evaluation Mixture: A standard used to verify that the ICAL sequence is stable throughout the GC or GC/MS analyses.

Sample Delivery Group (SDG): Defined by one of the following, whichever occurs first:
- case of sample
- each twenty field samples in a case or
- each 14-day calendar period during which field samples in a case are received, beginning with the receipt of the first sample in the SDG.

Serial Dilution: A sample run at a specific dilution to determine whether any significant chemical or physical interferences exist due to sample matrix effect, for ICP only.

Technical Holding Time: The time from sample collection to laboratory extraction and /or analysis.

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2. GLOSSARY OF DATA VALIDATION QUALIFIERS

(Used in the QA/QC Reviews for USEPA Region II)

The qualifiers listed below are used for data usability summary report (DUSR) purposes. However, it is important to note that the data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.

U = Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.

R = Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.

N = Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.

J = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.

J- = Analyte is present. Reported value may be biased low and associated with a higher level of uncertainty than is normally expected with the analytical method.

J+ = Analyte is present. Reported value may be biased high and associated with a higher level of uncertainty than is normally expected with the analytical method.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

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3. NYS DEC DATA USABILITY SUMMARY PARAMETERS

The parameters listed below are used for data usability summary report (DUSR) evaluation.

Samples Handling and Management
Data Validation References
Laboratory Data Packages
Laboratory Analytical Methods
DATA Usability Assessment Summary

4. DATA VALIDATION SUMMARY PARAMETERS

The parameters listed below are used for data validation evaluation.

	Organic Data	*Inorganic Data*
Data Completeness	*X*	*X*
Holding Time	*X*	*X*
Chromatographic Behavior	*X*	
Compound Identification	*X*	*X*
GC/MS Tuning and Mass Calibration	*X*	
Initial Calibration Verification	*X*	*X*
Continuing Calibration	*X*	*X*
Method Blank Verification	*X*	*X*
Internal Standard Area Summary	*X*	
Surrogate Recoveries	*X*	
Matrix Spike/Matrix Spike Duplicate	*X*	*X*
Laboratory Control Sample (LCS)	*X*	*X*
Laboratory and Field Duplicates	*X*	*X*
ICP Interference Check Sample results		*X*
ICP Serial Dilution results		*X*
ICP CRDL Standard		*X*
Post Digestion Spike Analysis		*X*
Analyte Quantitation		*X*

5. DATA VALIDATION REPORT NARRATIVE

NYS DEC Data Usability Summary Report	SDGs # 23C0874

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NYS DEC Data Usability Summary Report
SDGs # 23C0874

Site Location	220059 107-02 Queens Blvd., Queens, NY
Data Validation for Analytical Methods	Volatile Organic Compounds in Air by GC/MS **EPA TO15 Method**
Analytical Laboratory	York Analytical Laboratories, Inc
Number of Samples & Matrix	5 Indoor Ambient Air and 1 Outdoor Ambient Air Samples
Sampled On	03/14/2023
Laboratory Report Number	23C0874 (01 Through 06)
Data Validation Reviewer	Hanibal Tayeh, Ph.D.
Data Validation Completed	April 14th, 2023

- **SAMPLE HANDLING AND MANAGEMENT:** As per the chain of custody (COC) record included in this specific SDG, samples associated with this data set were collected on 03/14/2023 using the proper containers (Summa Canisters) in accordance with the Sample Integrity and Preservation section of USEPA TO15 method and received by the laboratory on 03/15/2023. The attached chain of custody (COC) displays a satisfactory record in terms of client and project information, site location, field sampling details (sampler, collection date and time), sample identification and matrix, preservation, required analysis, deliverable type and date, data management process and comparison.

Laboratory Sample Identification	Client Sample Identification
23C0874-01	AI-1 20230314
23C0874-02	AI-2 20230314
23C0874-03	AI-3 20230314
23C0874-04	AI-4 20230314
23C0874-05	AI-5 20230314
23C0874-06	AO-1 20230314

- **DATA VALIDATION REFERNCES:** The volatile organic compounds in air data validation is conducted in accordance with the guidelines in the USEPA Hazardous Waste Support Section-SOP NO. HW-31, Revision 6 Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method T0-15 and the method and QC Criteria specified in NYSDEC ASP Documents.

- **LABORATORY DATA PACKAGES:** The laboratory data packages for the stated SDG above is considered satisfactory in terms of pagination, quality control narration and completeness. Each package contained the laboratory quality assurance summary report, quality control summary data, sample nonconformance summaries, the required

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data package forms and tables in accordance with NYSDEC ASP documents, instrument tuning information, sample preparation and analysis batch and all associated standard, quality control and sample raw data.

- **LABORATORY ANALYTICAL METHODS:** A peer review of the quality assurance criteria listed in the laboratory data package shows with good degree of certainty the laboratory's compliance with the procedures set forth in the required USEPA analytical methods as indicated in the chain of custody. No deviations from the said methods have been noticed.

- **DATA USABILITY ASSESSMENT SUMMARY:** The overall data package assessment provided by the laboratory for the stated above sample delivery group (SDG) suggests acceptable laboratory performances of the required methods. All samples were successfully analyzed for all target compounds in accordance with the Quality Assurance/Quality Control (QA/QC) requirements for the USEPA analytical methods used for the analyses. In view of the data usability and completeness, the minor issues listed below regarding biases identified during data validation should be taken into high degree of consideration. They are as follows:

✓ **Volatile Organic Compounds in Air by GC/MS-EPA TO15 Method**

	Data Assessment Judgement *(Refer to Data Validation Assessment of a specific method for technical reasoning and argument behind such judgement)*	**DVA Reference**
1	-Detected results of **Hexachlorobutadiene**, in samples 23C0874-01/AI-1 20230314, 23C0874-02/AI-2 20230314, 23C0874-03/AI-3 20230314, 23C0874-04/AI-4 20230314, 23C0874-05/AI-5 20230314, 23C0874-06/AO-1 20230314, should be qualified Estimated (J).	**ICV**
2	-Detected results of **Bromomethane, Hexachlorobutadiene**, in samples 23C0874-01/AI-1 20230314, 23C0874-02/AI-2 20230314, 23C0874-03/AI-3 20230314, 23C0874-04/AI-4 20230314, 23C0874-05/AI-5 20230314, 23C0874-06/AO-1 20230314, should be qualified Estimated (J).	**CCV**
3	-Detected results of **Isopropanol**, that are less than 2X the highest blank concentration (**1.32 ug/m³**) in samples 23C0874-01/AI-1 20230314, 23C0874-02/AI-2 20230314, 23C0874-03/AI-3 20230314, 23C0874-04/AI-4 20230314, 23C0874-05/AI-5 20230314, 23C0874-06/AO-1 20230314, should be qualified Not Detected (U).	**Blank**
4	-Detected results of **Bromomethane, Hexachlorobutadiene**, in samples 23C0874-01/AI-1 20230314, 23C0874-02/AI-2 20230314, 23C0874-03/AI-3 20230314, 23C0874-04/AI-4 20230314, 23C0874-05/AI-5 20230314, 23C0874-06/AO-1 20230314, should be qualified Estimated Bias Low (J-).	**LCS**

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	-Non-Detected results of **Bromomethane, Hexachlorobutadiene**, in samples 23C0874-01/AI-1 20230314, 23C0874-02/AI-2 20230314, 23C0874-03/AI-3 20230314, 23C0874-04/AI-4 20230314, 23C0874-05/AI-5 20230314, 23C0874-06/AO-1 20230314, should be qualified Estimated (UJ).	

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Data Validation Assessment
SDGs # 23C0874

Data Validation for Analytical Method	Volatile Organic Compounds in Air by GC/MS **EPA TO15 Method**
Number of Samples & Matrix	5 Indoor Ambient Air and 1 Outdoor Ambient Air Samples
Sampled On	03/14/2023
Laboratory Report Number	23C0874 (01 Through 06)
Data Validation Reviewer	Hanibal Tayeh, Ph.D.
Data Validation Completed	April 14th, 2023

- **Data Completeness:** The data deliverable package provided by the laboratory in accordance with the ASP B deliverable standards is considered complete.

- **Holding Time:** According to the laboratory quality assurance report and its associated data package, the samples set listed in this SDG number were analyzed within the method holding times as recommended by USEPA and SW846 Methods.

- **Chromatographic Behavior:** This laboratory data package including but not limited to the standards, quality control samples and field sample analyses raw data (data reduction and chromatograms) display with good degree of certainty the laboratory's full compliance with the chromatographic criteria set forth in the USEPA and SW846 methods.

- **Compound Identification:** Target compounds, internal standards and surrogates were thoroughly checked and found to be within the gas chromatograph/mass spectrometry (GCMS) method quantitation limits and in accordance with the USEPA and SW846 methods for mass spectra identification and quantification using both the primary and secondary ions as defined in the method.

- **GC/MS Tuning and Mass Calibration:** The BFB tuning criteria were within control limits as outlined in the EPA and SW846 methods.

- **Initial Calibration Verification (ICV):** As indicated in the method calibration criteria, the initial calibration standards of this data set have been evaluated for compliance with method criteria for the Average Response Factor (RRFs) and Percent Relative Standard Deviation (%RSD): (Average RRF > 0.010 for poor response volatile target compounds and > 0.050 for all other volatile target compounds. %RSD must be < 30% as the allowable maximum, and the coefficient of determination (COD) must be greater than 0.995). This evaluation displays the following:

  -The initial calibration (SB30018 calibrated on 02/09/2023) met the required criteria for the Average Response Factor (RRFs) and the coefficient of determination (CODs) of various target compounds that were greater than 0.995. (RRF > 0.010 for poor response

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volatile target compounds and RRF > 0.050 for all other volatile target compounds; %RSD < 30% as the allowable maximum), EXCEPT:
*COD Value for Hexachlorobutadiene, was below the allowable minimum.

-A second source calibration standard (S3B1020-SCV1) was analyzed on 02/10/2023 and confirmed the initial calibration full compliance with the method criteria. %Ds were below the allowable maximum (%Ds <30%), EXCEPT:
*%Ds for Hexachlorobutadiene, was above the allowable maximum.

Quality Judgement:
-Detected results of Hexachlorobutadiene, in samples 23C0874-01/AI-1 20230314, 23C0874-02/AI-2 20230314, 23C0874-03/AI-3 20230314, 23C0874-04/AI-4 20230314, 23C0874-05/AI-5 20230314, 23C0874-06/AO-1 20230314, should be qualified Estimated (J).

- **Continuing Calibration Verification (CCV):** As indicated in the method calibration criteria, the continuing calibration standard of this data set has been evaluated for compliance with method criteria for Relative Response Factor (RRFs) and Percent Difference (%Ds) and confirmed the following:

  -The continuing calibration (S3C2151-CCV1 analyzed on 03/20/2023) met the required criteria for the Response Factor (RRFs) and %D (RRF > 0.010 for poor response volatile target compounds and RRF > 0.050 for all other volatile target compounds; %D < 30% as the allowable maximum) EXCEPT:
  %Ds for Bromomethane, Hexachlorobutadiene, were above the allowable maximum.

  No action is required when less than 20% of the continuing calibration target compounds are outside the method control limits provide no Average Relative Response Factor (RRFs) is less than 0.01 for all target compounds.

  Quality Judgement:
  -Detected results of Bromomethane, Hexachlorobutadiene, in samples 23C0874-01/AI-1 20230314, 23C0874-02/AI-2 20230314, 23C0874-03/AI-3 20230314, 23C0874-04/AI-4 20230314, 23C0874-05/AI-5 20230314, 23C0874-06/AO-1 20230314, should be qualified Estimated (J).

- **Method Blank Verification (Blank):** Method blank analyses included in this data set of laboratory data package concluded no detection for the TO15 target compounds in the following Blank samples:
  - In BC31384-BLK1, analyzed on 03/20/2023, All Target TO15 compounds were below the method reporting limits (RL), EXCEPT:
    *Isopropanol, was detected @ **0.66 (ug/m³)**

  Quality Judgement:
  -Detected results of **Isopropanol**, that are less than 2X the highest blank concentration **(1.32 ug/m³)** in samples 23C0874-01/AI-1 20230314, 23C0874-02/AI-2 20230314,

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23C0874-03/AI-3 20230314, 23C0874-04/AI-4 20230314, 23C0874-05/AI-5 20230314, 23C0874-06/AO-1 20230314, should be qualified Not Detected (U).

- **Internal Standard Area Summary (IS):** As indicated in the method internal standard criteria, the laboratory data package for the stated SDG confirmed the following:
  -The internal standard retention times were within method control limits.
  -The internal standard areas were within method control limits.
  -Internal Standards for all samples and QCs were within method control limits.

  Quality Judgement: No actions are required.

- **Surrogate Recoveries (SR):** An evaluation of the surrogate standard behavior in the SDG data set concluded that the surrogate recoveries were within method control limits (70% < SURR <130%).
  Surrogate summary was not included in the data package. Below is the Surrogate table evaluation that is generated from the samples raw data:

Sample Identification	Lab Sample Identification	Surrogate Standard ID	Area Response	% Surrogate	Control Limits (%)
AI-1 20230314	23C0874-01	p-Bromofluorobenzene	252497	116	70-130%
AI-2 20230314	23C0874-02	p-Bromofluorobenzene	251628	116	70-130%
AI-3 20230314	23C0874-03	p-Bromofluorobenzene	276593	115	70-130%
AI-4 20230314	23C0874-04	p-Bromofluorobenzene	238011	110	70-130%
AI-5 20230314	23C0874-05	p-Bromofluorobenzene	259902	121	70-130%
AO-1 20230314	23C0874-06	p-Bromofluorobenzene	229771	112	70-130%

Quality Judgement: No actions are required.

- **Laboratory Control Sample (LCS):** As required by the method quality assurance/quality control criteria, the laboratory control sample in this data set has been evaluated for method compliance purposes. The following summarizes this evaluation:

  -The percent Recoveries (%Rs) for target TO15 analysis in (BC31384-BS1) were within the method control limits (70-130%), EXCEPT:
  *%Rs for Bromomethane, Hexachlorobutadiene, were below control limits.

  Quality Judgement:
  -Detected results of Bromomethane, Hexachlorobutadiene, in samples 23C0874-01/AI-1 20230314, 23C0874-02/AI-2 20230314, 23C0874-03/AI-3 20230314, 23C0874-04/AI-4 20230314, 23C0874-05/AI-5 20230314, 23C0874-06/AO-1 20230314, should be qualified Estimated Bias Low (J-).
  -Non-Detected results of Bromomethane, Hexachlorobutadiene, in samples 23C0874-01/AI-1 20230314, 23C0874-02/AI-2 20230314, 23C0874-03/AI-3 20230314, 23C0874-04/AI-4 20230314, 23C0874-05/AI-5 20230314, 23C0874-06/AO-1 20230314, should be qualified Estimated (UJ).

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- **Laboratory and Field Duplicates (DUP):** As required by the method quality assurance/quality control criteria, the laboratory duplicate sample in this data set has been evaluated for method compliance purposes. The following summarizes this evaluation:
  -No field duplicate sample was included in this data set.

  -No Laboratory Duplicate sample was analyzed in this data set.

  Quality Judgement: No actions are required.

- **Canister Integrity:** According to both the chain of custody record and the Work Order Narrative for this set of samples, the canisters were received in the laboratory and displayed a residual vacuum below zero as required by EPA TO15 method.

- **Analyte Quantitation:** Target compounds were quantitated using the proper method calculation criteria in accordance with the USEPA and SW846 methods procedures and guidelines.

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ATTACHMENT

(All Validated Quality Control Forms, Tables, Chromatograms, Raw Data)

271 WEDGEWOOD ROAD • SOUTHINGTON • CONNECTICUT 06489 • UNITED STATES OF AMERICA
TEL : +1 (413) 875-5049 • Email : hanibaltayeh@gmail.com

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0874

Client: Hydro Tech Environmental (Brooklyn)
Project: 220059 107-02 Queens Blvd., Queens, NY

Calibration: SB30018
Instrument: 5975C

Calibration Date: 02/09/23 15:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.5679118	32.62832	19.124	1.814462E-02		0.9998113	0.99	
1,1,1-Trichloroethane	1.88483	25.33712	12.729	3.358103E-02			30	
1,1,2,2-Tetrachloroethane	0.8254239	26.21371	20.93263	1.593841E-02			30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.931202	26.03835	8.545	5.002134E-02			30	
1,1,2-Trichloroethane	0.4023671	42.49058	16.97725	0.0093742		0.9983165	0.99	
1,1-Dichloroethane	1.463808	22.24976	10.744	1.613346E-02			30	
1,1-Dichloroethylene	1.182463	21.87709	8.7745	5.582412E-02			30	
1,2,4-Trichlorobenzene	0.450397	95.60095	27.1255	3.174914E-02		0.9971271	0.99	
1,2,4-Trimethylbenzene	1.222911	46.85064	22.6765	2.509121E-02		0.9992843	0.99	
1,2-Dibromoethane	0.5647201	45.42937	18.28175	2.189936E-02		0.9990897	0.99	
1,2-Dichlorobenzene	0.8808777	48.03752	24.38425	1.949391E-02		0.9986445	0.99	
1,2-Dichloroethane	1.091627	21.45167	13.25675	2.004608E-02			30	
1,2-Dichloropropane	0.3045277	36.67135	14.633	1.652544E-02		0.9973047	0.99	
1,2-Dichlorotetrafluoroethane	4.215403	15.10676	5.602	1.229547E-02			30	
1,3,5-Trimethylbenzene	1.211731	41.29969	21.84025	2.248195E-02		0.9995852	0.99	
1,3-Butadiene	0.6943268	17.39814	6.17225	1.497752E-02			30	
1,3-Dichlorobenzene	0.8736577	49.70458	23.50237	8.786833E-03		0.9987538	0.99	
1,3-Dichloropropane	0.4466001	37.00864	17.40075	9.728599E-03		0.9991713	0.99	
1,4-Dichlorobenzene	0.8472971	55.27094	23.6885	1.682563E-02		0.9981662	0.99	
1,4-Dioxane	0.1550428	40.21201	14.96438	6.852251E-02		0.9992273	0.99	
2-Butanone	1.605231	20.35645	11.34787	9.339091E-02			30	
2-Hexanone	0.5592923	52.37606	16.98738	0.0606424		0.9940145	0.99	
3-Chloropropene	0.8602626	26.03995	9.35525	1.620967E-02			30	
4-Methyl-2-pentanone	0.6123209	35.75343	15.52875	0.067238		0.998339	0.99	
Acetone	1.459811	17.72442	8.404	0.1306927			30	
Acrolein	0.2906823	21.88941	8.2955	0.1075137			30	
Acrylonitrile	0.5273167	25.08819	9.59175	0.103936			30	
Benzene	2.801228	33.2528	13.3865	5.252933E-03		0.9984487	0.99	
Benzyl chloride	0.2079255	71.61796	23.83414	4.619463E-03		0.9962667	0.99	
Bromodichloromethane	0.6193978	34.2256	14.993	1.496715E-02		0.9993134	0.99	
Bromoform	0.7296276	49.49904	20.68337	2.124702E-02		0.9992479	0.99	
Bromomethane	1.670006	51.91917	6.952286	9.668786E-02		0.9946113	0.99	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0874
Client: Hydro Tech Environmental (Brooklyn)
Project: 220059 107-02 Queens Blvd., Queens, NY
Calibration: SB30018
Instrument: 5975C
Calibration Date: 02/09/23 15:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Carbon disulfide	2.199716	23.56304	9.64375	2.541917E-02			30	
Carbon tetrachloride	1.929495	34.86459	13.188	1.413336E-02		0.9997715	0.99	
Chlorobenzene	0.955844	22.85887	19.0795	1.064394E-02			30	
Chloroethane	0.4059188	14.44435	7.122875	7.975285E-02			30	
Chloroform	1.85026	23.6293	11.997	2.229023E-02			30	
Chloromethane	0.8582864	14.43323	5.82725	7.599228E-02			30	
cis-1,2-Dichloroethylene	1.005026	25.6162	11.727	4.098107E-02			30	
cis-1,3-Dichloropropylene	0.3911601	42.10937	15.87475	8.551144E-03		0.9993211	0.99	
Cyclohexane	1.117996	35.76124	12.89625	1.887354E-02		0.9995798	0.99	
Dibromochloromethane	0.7225939	48.80897	17.90938	1.869637E-02		0.9992972	0.99	
Dichlorodifluoromethane	2.498374	20.1003	5.346375	4.070055E-02			30	
Ethanol	0.5401632	70.5422	7.2595	0.1154342		0.9989992	0.99	
Ethyl acetate	1.836021	25.62991	11.64425	7.243901E-02			30	
Ethyl Benzene	1.385254	26.4869	19.18	1.330794E-02			30	
Hexachlorobutadiene	0.8807332	54.22884	27.393	1.988581E-02		0.9864156	0.99	*
Isopropanol	1.895388	31.21437	8.18375	0.1830071		0.9998121	0.99	
Isopropylbenzene	1.518796	39.57423	20.75825	1.282842E-02		0.9991552	0.99	
Methyl Methacrylate	0.2716714	51.9275	14.6435	3.163053E-02		0.9970402	0.99	
Methyl tert-butyl ether (MTBE)	1.929202	29.02179	9.908	0.1334182			30	
Methylene chloride	1.245314	32.89409	9.504	2.627446E-02		0.9997639	0.99	
Naphthalene	0.9520446	87.23956	27.52143	0.0412689		0.9919905	0.99	
n-Butylbenzene	1.366133	52.29818	24.12175	1.552221E-02		0.9955364	0.99	
n-Heptane	1.528945	41.81157	13.3975	1.635777E-02		0.996748	0.99	
n-Hexane	1.114725	32.98459	10.378	9.747037E-03		0.9996587	0.99	
n-Propylbenzene	1.796593	34.30909	21.52725	1.740294E-02		0.9985213	0.99	
o-Xylene	1.097207	39.93537	20.10913	1.189213E-02		0.9982891	0.99	
p- & m- Xylenes	1.132692	34.85683	19.3275	1.472818E-02		0.9972675	0.99	
p-Ethyltoluene	1.454004	43.85898	21.75112	1.674701E-02		0.9985519	0.99	
p-Isopropyltoluene	1.598368	50.98184	23.33075	1.585434E-02		0.9975952	0.99	
Propylene	0.4411641	19.61581	5.27675	6.168698E-02			30	
sec-Butylbenzene	1.94325	42.65853	23.066	2.044526E-02		0.9984025	0.99	
Styrene	0.8405435	54.70295	20.1245	8.966005E-03		0.9974073	0.99	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA TO-15

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SDG: 23C0874

Client: Hydro Tech Environmental (Brooklyn)
Project: 220059 107-02 Queens Blvd., Queens, NY

Calibration: SB30018
Instrument: 5975C

Calibration Date: 02/09/23 15:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
tert-Butylbenzene	1.413862	44.91042	22.60175	2.144217E-02		0.9995083	0.99	
Tetrachloroethylene	0.6279522	45.94898	17.71687	0.0165038		0.9995003	0.99	
Tetrahydrofuran	0.867238	24.99612	12.3305	0.099741			30	
Toluene	1.015961	31.3337	16.53125	1.786222E-02		0.9990214	0.99	
trans-1,2-Dichloroethylene	1.08078	26.5724	10.1005	0.0256283			30	
trans-1,3-Dichloropropylene	0.353279	44.29718	16.68163	1.960388E-02		0.9992871	0.99	
Trichloroethylene	0.3610332	33.26443	14.41	1.822042E-02		0.9995612	0.99	
Trichlorofluoromethane (Freon 11)	2.433652	19.82609	7.69275	2.776429E-02			30	
Vinyl acetate	1.996925	34.30398	10.69287	5.366061E-02		0.9992837	0.99	
Vinyl bromide	0.7965432	23.8465	7.576375	4.335981E-02			30	
Vinyl Chloride	1.176271	29.6445	6.095	7.003539E-02			30	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0874
Client: Hydro Tech Environmental (Brooklyn)
Project: 220059 107-02 Queens Blvd., Queens, NY
Calibration: SB30018
Laboratory ID: S3B1020-SCV1
Sequence: S3B1020
Standard ID: S23B027

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	9.26	-7.4	30.00
1,1,1-Trichloroethane	10.0	10.4	4.5	30.00
1,1,2,2-Tetrachloroethane	10.0	11.1	11.3	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.1	0.6	30.00
1,1,2-Trichloroethane	10.0	7.97	-20.3	30.00
1,1-Dichloroethane	10.0	10.2	1.7	30.00
1,1-Dichloroethylene	10.0	11.0	9.9	30.00
1,2,4-Trichlorobenzene	10.0	8.15	-18.5	30.00
1,2,4-Trimethylbenzene	10.0	8.41	-15.9	30.00
1,2-Dibromoethane	10.0	8.46	-15.4	30.00
1,2-Dichlorobenzene	10.0	7.97	-20.3	30.00
1,2-Dichloroethane	10.0	10.6	5.7	30.00
1,2-Dichloropropane	10.0	7.81	-21.9	30.00
1,2-Dichlorotetrafluoroethane	10.0	8.30	-17.0	30.00
1,3,5-Trimethylbenzene	10.0	8.71	-12.9	30.00
1,3-Butadiene	10.0	8.66	-13.4	30.00
1,3-Dichlorobenzene	10.0	8.30	-17.0	30.00
1,3-Dichloropropane	10.0	8.51	-14.9	30.00
1,4-Dichlorobenzene	10.0	8.12	-18.8	30.00
1,4-Dioxane	10.0	9.89	-1.1	30.00
2-Butanone	10.0	11.0	10.4	30.00
2-Hexanone	10.0	7.83	-21.7	30.00
3-Chloropropene	10.0	11.6	16.3	30.00
4-Methyl-2-pentanone	10.0	8.32	-16.8	30.00
Acetone	10.0	8.75	-12.5	30.00
Acrylonitrile	10.0	11.9	18.6	30.00
Benzene	10.0	8.02	-19.8	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0874
Client: Hydro Tech Environmental (Brooklyn)
Project: 220059 107-02 Queens Blvd., Queens, NY
Calibration: SB30018
Laboratory ID: S3B1020-SCV1
Sequence: S3B1020
Standard ID: S23B027

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% DIFF	QC LIMIT
Benzyl chloride	10.0	8.14	-18.6	30.00
Bromodichloromethane	10.0	8.52	-14.8	30.00
Bromoform	10.0	8.36	-16.4	30.00
Bromomethane	10.0	8.25	-17.5	30.00
Carbon disulfide	10.0	10.4	3.5	30.00
Carbon tetrachloride	10.0	9.57	-4.3	30.00
Chlorobenzene	10.0	10.5	5.2	30.00
Chloroethane	10.0	10.8	8.4	30.00
Chloroform	10.0	10.4	4.2	30.00
Chloromethane	10.0	8.00	-20.0	30.00
cis-1,2-Dichloroethylene	10.0	11.4	13.5	30.00
cis-1,3-Dichloropropylene	10.0	9.18	-8.2	30.00
Cyclohexane	10.0	9.50	-5.0	30.00
Dibromochloromethane	10.0	8.29	-17.1	30.00
Dichlorodifluoromethane	10.0	10.5	5.0	30.00
Ethyl acetate	10.0	11.1	11.4	30.00
Ethyl Benzene	10.0	11.3	13.1	30.00
Hexachlorobutadiene	10.0	5.25	-47.5 *	30.00
Isopropanol	10.0	10.4	4.0	30.00
Methyl Methacrylate	10.0	7.68	-23.2	30.00
Methyl tert-butyl ether (MTBE)	10.0	11.3	13.4	30.00
Methylene chloride	10.0	9.51	-4.9	30.00
n-Heptane	10.0	7.73	-22.7	30.00
n-Hexane	10.0	9.41	-5.9	30.00
o-Xylene	10.0	8.24	-17.6	30.00
p- & m- Xylenes	20.0	15.7	-21.4	30.00
p-Ethyltoluene	10.0	8.29	-17.1	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23C0874
Client: Hydro Tech Environmental (Brooklyn)
Project: 220059 107-02 Queens Blvd., Queens, NY
Calibration: SB30018
Laboratory ID: S3B1020-SCV1
Sequence: S3B1020
Standard ID: S23B027

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% DIFF	QC LIMIT
Propylene	10.0	11.0	10.5	30.00
Styrene	10.0	7.92	-20.8	30.00
Tetrachloroethylene	10.0	8.58	-14.2	30.00
Tetrahydrofuran	10.0	11.3	13.2	30.00
Toluene	10.0	8.35	-16.5	30.00
trans-1,2-Dichloroethylene	10.0	10.9	8.6	30.00
trans-1,3-Dichloropropylene	10.0	9.10	-9.0	30.00
Trichloroethylene	10.0	8.79	-12.1	30.00
Trichlorofluoromethane (Freon 11)	10.0	9.95	-0.5	30.00
Vinyl acetate	10.0	9.03	-9.7	30.00
Vinyl bromide	10.0	11.0	10.0	30.00
Vinyl Chloride	10.0	7.20	-28.0	30.00

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23C0874
Client:	Hydro Tech Environmental (Brooklyn)	Project:	220059 107-02 Queens Blvd., Queens, NY
Instrument ID:	5975C	Calibration:	SB30018
Lab File ID:	TO298083.D	Calibration Date:	02/09/23 15:26
Sequence:	S3C2151	Injection Date:	03/20/23
Lab Sample ID:	S3C2151-CCV1	Injection Time:	11:53

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	10.0	9.43	0.5679118	0.613922		-5.7	30
1,1,1-Trichloroethane	A	10.0	10.4	1.88483	1.956336		3.8	30
1,1,2,2-Tetrachloroethane	A	10.0	11.1	0.8254239	0.913483		10.7	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	9.73	1.931202	1.879751		-2.7	30
1,1,2-Trichloroethane	A	10.0	8.90	0.4023671	0.4686945		-11.0	30
1,1-Dichloroethane	A	10.0	9.98	1.463808	1.460465		-0.2	30
1,1-Dichloroethylene	A	10.0	10.8	1.182463	1.279888		8.2	30
1,2,4-Trichlorobenzene	A	10.0	8.43	0.450397	0.4317739		-15.7	30
1,2,4-Trimethylbenzene	A	10.0	8.51	1.222911	1.450891		-14.9	30
1,2-Dibromoethane	A	10.0	9.05	0.5647201	0.6394941		-9.5	30
1,2-Dichlorobenzene	A	10.0	8.37	0.8808777	1.002729		-16.3	30
1,2-Dichloroethane	A	10.0	11.0	1.091627	1.201221		10.0	30
1,2-Dichloropropane	A	10.0	8.48	0.3045277	0.3584054		-15.2	30
1,2-Dichlorotetrafluoroethane	A	10.0	9.63	4.215403	4.058585		-3.7	30
1,3,5-Trimethylbenzene	A	10.0	8.57	1.211731	1.392518		-14.3	30
1,3-Butadiene	A	10.0	10.7	0.6943268	0.7439786		7.2	30
1,3-Dichlorobenzene	A	10.0	8.59	0.8736577	1.02396		-14.1	30
1,3-Dichloropropane	A	10.0	9.39	0.4466001	0.5324602		-6.1	30
1,4-Dichlorobenzene	A	10.0	8.38	0.8472971	0.9900243		-16.2	30
1,4-Dioxane	A	10.0	10.0	0.1550428	0.1945642		0.5	30
2-Butanone	A	10.0	10.1	1.605231	1.615373		0.6	30
2-Hexanone	Q	10.0	8.12	0.5592923	0.7331601		-18.8	30
3-Chloropropene	A	10.0	10.4	0.8602626	0.8978156		4.4	30
4-Methyl-2-pentanone	A	10.0	8.40	0.6123209	0.6993221		-16.0	30
Acetone	A	10.0	8.31	1.459811	1.213354		-16.9	30
Acrylonitrile	A	10.0	11.4	0.5273167	0.6012182		14.0	30
Benzene	A	10.0	7.54	2.801228	2.724097		-24.6	30
Benzyl chloride	A	10.0	9.20	0.2079255	0.2773469		-8.0	30
Bromodichloromethane	A	10.0	9.15	0.6193978	0.7138686		-8.5	30

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23C0874
Client:	Hydro Tech Environmental (Brooklyn)	Project:	220059 107-02 Queens Blvd., Queens, NY
Instrument ID:	5975C	Calibration:	SB30018
Lab File ID:	TO298083.D	Calibration Date:	02/09/23 15:26
Sequence:	S3C2151	Injection Date:	03/20/23
Lab Sample ID:	S3C2151-CCV1	Injection Time:	11:53

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	9.13	0.7296276	0.8468165		-8.7	30	
Bromomethane	A	10.0	6.22	1.670006	0.8762949		-37.8	30	*
Carbon disulfide	A	10.0	9.88	2.199716	2.173714		-1.2	30	
Carbon tetrachloride	A	10.0	9.52	1.929495	2.066499		-4.8	30	
Chlorobenzene	A	10.0	10.0	0.955844	0.9567163		0.09	30	
Chloroethane	A	10.0	10.3	0.4059188	0.4179367		3.0	30	
Chloroform	A	10.0	10.1	1.85026	1.872774		1.2	30	
Chloromethane	A	10.0	10.4	0.8582864	0.8921478		3.9	30	
cis-1,2-Dichloroethylene	A	10.0	10.9	1.005026	1.099216		9.4	30	
cis-1,3-Dichloropropylene	A	10.0	9.53	0.3911601	0.4739458		-4.7	30	
Cyclohexane	A	10.0	8.92	1.117996	1.190702		-10.8	30	
Dibromochloromethane	A	10.0	9.33	0.7225939	0.8215234		-6.7	30	
Dichlorodifluoromethane	A	10.0	9.31	2.498374	2.326689		-6.9	30	
Ethyl acetate	A	10.0	10.1	1.836021	1.859969		1.3	30	
Ethyl Benzene	A	10.0	10.5	1.385254	1.452283		4.8	30	
Hexachlorobutadiene	A	10.0	6.48	0.8807332	0.8835316		-35.2	30	*
Isopropanol	A	10.0	9.44	1.895388	1.450793		-5.6	30	
Methyl Methacrylate	A	10.0	8.57	0.2716714	0.3481541		-14.3	30	
Methyl tert-butyl ether (MTBE)	A	10.0	10.5	1.929202	2.01788		4.6	30	
Methylene chloride	A	10.0	9.30	1.245314	0.9621235		-7.0	30	
n-Heptane	A	10.0	7.27	1.528945	1.669695		-27.3	30	
n-Hexane	A	10.0	8.72	1.114725	1.150988		-12.8	30	
o-Xylene	A	10.0	7.97	1.097207	1.265149		-20.3	30	
p- & m- Xylenes	A	20.0	14.3	1.132692	1.223359		-28.4	30	
p-Ethyltoluene	A	10.0	8.15	1.454004	1.680712		-18.5	30	
Propylene	A	10.0	10.1	0.4411641	0.4475108		1.4	30	
Styrene	A	10.0	7.73	0.8405435	1.007245		-22.7	30	
Tetrachloroethylene	A	10.0	9.89	0.6279522	0.7034274		-1.1	30	
Tetrahydrofuran	A	10.0	10.9	0.867238	0.9452496		9.0	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23C0874
Client:	Hydro Tech Environmental (Brooklyn)	Project:	220059 107-02 Queens Blvd., Queens, NY
Instrument ID:	5975C	Calibration:	SB30018
Lab File ID:	TO298083.D	Calibration Date:	02/09/23 15:26
Sequence:	S3C2151	Injection Date:	03/20/23
Lab Sample ID:	S3C2151-CCV1	Injection Time:	11:53

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Toluene	A	10.0	8.57	1.015961	1.050509		-14.3	30
trans-1,2-Dichloroethylene	A	10.0	10.4	1.08078	1.121753		3.8	30
trans-1,3-Dichloropropylene	A	10.0	9.69	0.353279	0.4468936		-3.1	30
Trichloroethylene	A	10.0	9.50	0.3610332	0.4228296		-5.0	30
Trichlorofluoromethane (Freon 11)	A	10.0	9.85	2.433652	2.396814		-1.5	30
Vinyl acetate	A	10.0	7.86	1.996925	1.889633		-21.4	30
Vinyl bromide	A	10.0	10.2	0.7965432	0.8145918		2.3	30
Vinyl Chloride	A	10.0	8.95	1.176271	1.053027		-10.5	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM I

METHOD BLANK DATA SHEET

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0874
Client:	Hydro Tech Environmental (Brooklyn)			Project:	220059 107-02 Queens Blvd., Queens, NY
Matrix:	Air	Laboratory ID:	BC31384-BLK1	File ID:	TO298085.D
Prepared:	03/20/23 11:00	Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Analyzed:	03/20/23 14:16	Instrument:	5975C		
Batch:	BC31384	Sequence:	S3C2151	Calibration:	SB30018

CAS NO.	COMPOUND	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.69	U
71-55-6	1,1,1-Trichloroethane	0.55	U
79-34-5	1,1,2,2-Tetrachloroethane	0.69	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.77	U
79-00-5	1,1,2-Trichloroethane	0.55	U
75-34-3	1,1-Dichloroethane	0.40	U
75-35-4	1,1-Dichloroethylene	0.099	U
120-82-1	1,2,4-Trichlorobenzene	0.74	U
95-63-6	1,2,4-Trimethylbenzene	0.49	U
106-93-4	1,2-Dibromoethane	0.77	U
95-50-1	1,2-Dichlorobenzene	0.60	U
107-06-2	1,2-Dichloroethane	0.40	U
78-87-5	1,2-Dichloropropane	0.46	U
76-14-2	1,2-Dichlorotetrafluoroethane	0.70	U
108-67-8	1,3,5-Trimethylbenzene	0.49	U
106-99-0	1,3-Butadiene	0.66	U
541-73-1	1,3-Dichlorobenzene	0.60	U
142-28-9	1,3-Dichloropropane	0.46	U
106-46-7	1,4-Dichlorobenzene	0.60	U
123-91-1	1,4-Dioxane	0.72	U
78-93-3	2-Butanone	0.29	U
591-78-6	2-Hexanone	0.82	U
107-05-1	3-Chloropropene	1.6	U
108-10-1	4-Methyl-2-pentanone	0.41	U
67-64-1	Acetone	0.48	U
107-13-1	Acrylonitrile	0.22	U
71-43-2	Benzene	0.32	U
100-44-7	Benzyl chloride	0.52	U
75-27-4	Bromodichloromethane	0.67	U
75-25-2	Bromoform	1.0	U

FORM I

METHOD BLANK DATA SHEET

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0874
Client:	Hydro Tech Environmental (Brooklyn)			Project:	220059 107-02 Queens Blvd., Queens, NY
Matrix:	Air	Laboratory ID:	BC31384-BLK1	File ID:	TO298085.D
Prepared:	03/20/23 11:00	Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Analyzed:	03/20/23 14:16	Instrument:	5975C		
Batch:	BC31384	Sequence:	S3C2151	Calibration:	SB30018

CAS NO.	COMPOUND	CONC. (ug/m³)	Q
74-83-9	Bromomethane	0.39	U
75-15-0	Carbon disulfide	0.31	U
56-23-5	Carbon tetrachloride	0.16	U
108-90-7	Chlorobenzene	0.46	U
75-00-3	Chloroethane	0.26	U
67-66-3	Chloroform	0.49	U
74-87-3	Chloromethane	0.21	U
156-59-2	cis-1,2-Dichloroethylene	0.099	U
10061-01-5	cis-1,3-Dichloropropylene	0.45	U
110-82-7	Cyclohexane	0.34	U
124-48-1	Dibromochloromethane	0.85	U
75-71-8	Dichlorodifluoromethane	0.49	U
141-78-6	Ethyl acetate	0.72	U
100-41-4	Ethyl Benzene	0.43	U
87-68-3	Hexachlorobutadiene	1.1	U
67-63-0	Isopropanol	0.66	
80-62-6	Methyl Methacrylate	0.41	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.36	U
75-09-2	Methylene chloride	0.69	U
142-82-5	n-Heptane	0.41	U
110-54-3	n-Hexane	0.35	U
95-47-6	o-Xylene	0.43	U
179601-23-1	p- & m- Xylenes	0.87	U
622-96-8	p-Ethyltoluene	0.49	U
115-07-1	Propylene	0.17	U
100-42-5	Styrene	0.43	U
127-18-4	Tetrachloroethylene	0.68	U
109-99-9	Tetrahydrofuran	0.59	U
108-88-3	Toluene	0.38	U
156-60-5	trans-1,2-Dichloroethylene	0.40	U

FORM I

METHOD BLANK DATA SHEET

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23C0874
Client:	Hydro Tech Environmental (Brooklyn)			Project:	220059 107-02 Queens Blvd., Queens, NY
Matrix:	Air	Laboratory ID:	BC31384-BLK1	File ID:	TO298085.D
Prepared:	03/20/23 11:00	Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Analyzed:	03/20/23 14:16	Instrument:	5975C		
Batch:	BC31384	Sequence:	S3C2151	Calibration:	SB30018

CAS NO.	COMPOUND	CONC. (ug/m³)	Q
10061-02-6	trans-1,3-Dichloropropylene	0.45	U
79-01-6	Trichloroethylene	0.13	U
75-69-4	Trichlorofluoromethane (Freon 11)	0.56	U
108-05-4	Vinyl acetate	0.35	U
593-60-2	Vinyl bromide	0.44	U
75-01-4	Vinyl Chloride	0.13	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	259320	12.227	200784	12.22	
ISTD: 1,4-Difluorobenzene	773034	13.771	584609	13.771	
ISTD: d5-Chlorobenzene	556180	19.006	615197	19.006	

Quantitation Report (QT Reviewed)

Data Path : D:\032023A\
Data File : TO298093.D
Acq On : 20 Mar 2023 10:10 pm
Operator : VH
Sample : 23C0874-01
Misc : QBTO1032023A 0.533X/750ML
ALS Vial : 8 Sample Multiplier: 1.007
InstName : 5975C

Quant Time: Mar 21 16:13:40 2023
Quant Method : C:\msdchem\1\methods\AIR160.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Feb 10 06:43:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.226	49	208720	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.777	114	591138	10.00	ppbv		0.00
54) d5-Chlorobenzene	19.006	117	472835	10.00	ppbv		-0.01
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.171	95	252497	11.55	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.50%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	5.329	85	27453	0.53	ppbv	#	94
4) 1,2-Dichlorotetrafluor...	5.595	85	2228	0.03	ppbv		86
5) Chloromethane	5.813	50	11879m	0.66	ppbv		
6) Vinyl Chloride	6.079	62	665	0.03	ppbv	#	42
10) ethanol	7.283	45	5266640	520.28	ppbv		88
12) Trichlorofluoromethane	7.692	101	12047	0.24	ppbv		99
13) Isopropanol	8.188	45	1278015	36.87	ppbv		100
14) Acrolein	8.306	56	1853m	0.31	ppbv		
15) Acetone	8.412	43	368629	12.10	ppbv		98
16) Freon-113	8.567	101	2900	0.07	ppbv		97
19) Methylene Chloride	9.516	49	9031	0.43	ppbv		97
27) 2-Butanone	11.346	43	80199	2.39	ppbv		97
28) Ethyl Acetate	11.650	43	7226	0.19	ppbv	#	77
30) Chloroform	12.003	83	4067	0.11	ppbv	#	91
31) Tetrahydrofuran	12.326	42	134286	7.42	ppbv		94
34) Carbon Tetrachloride	13.194	117	2931	0.07	ppbv		97
36) Benzene	13.393	78	15831	0.21	ppbv	#	100
37) n-Heptane	13.399	43	4543	0.09	ppbv	#	75
44) Methyl Isobutyl Ketone	15.527	43	7063	0.14	ppbv	#	82
46) Toluene	16.531	91	54836	0.78	ppbv		99
51) Tetrachloroethylene	17.716	166	1439	0.04	ppbv		98
57) Ethylbenzene	19.180	91	19350	0.30	ppbv		97
58) p- & m-Xylenes	19.323	91	57264	0.68	ppbv		94
59) o-Xylene	20.104	91	17802	0.23	ppbv		99
60) Styrene	20.123	104	7013	0.11	ppbv	#	74
62) n-Propylbenzene	21.525	91	5678	0.05	ppbv		100
63) Isopropylbenzene	20.756	105	4132	0.04	ppbv		96
66) 4-Ethyltoluene	21.705	105	18950	0.19	ppbv	#	86
67) 1,3,5-Trimethylbenzene	21.835	105	4464	0.06	ppbv	#	90
69) 1,2,4-Trimethylbenzene	22.672	105	15574	0.20	ppbv	#	93
71) p-Isopropyltoluene	23.324	119	3322	0.03	ppbv	#	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\032023A\
Data File : TO298094.D
Acq On : 20 Mar 2023 11:09 pm
Operator : VH
Sample : 23C0874-02
Misc : QBTO1032023A 0.533X/750ML
ALS Vial : 9 Sample Multiplier: 0.999
InstName : 5975C

Quant Time: Mar 21 16:17:33 2023
Quant Method : C:\msdchem\1\methods\AIR160.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Feb 10 06:43:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.227	49	207206	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.777	114	588380	10.00	ppbv		0.00
54) d5-Chlorobenzene	19.006	117	468406	10.00	ppbv		-0.01
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.171	95	251628	11.62	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.20%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	5.329	85	29111	0.56	ppbv	#	94
4) 1,2-Dichlorotetrafluor...	5.595	85	2646	0.03	ppbv		89
5) Chloromethane	5.819	50	13332m	0.75	ppbv		
10) ethanol	7.270	45	1860030	243.42	ppbv		88
12) Trichlorofluoromethane	7.704	101	12056	0.24	ppbv		99
13) Isopropanol	8.188	45	609924	18.65	ppbv		100
14) Acrolein	8.312	56	1150	0.19	ppbv	#	100
15) Acetone	8.412	43	327512	10.83	ppbv		98
16) Freon-113	8.561	101	3052	0.08	ppbv		97
19) Methylene Chloride	9.516	49	12756	0.61	ppbv		95
27) 2-Butanone	11.352	43	66258	1.99	ppbv		95
28) Ethyl Acetate	11.650	43	7556	0.20	ppbv	#	85
30) Chloroform	12.003	83	4089	0.11	ppbv	#	94
31) Tetrahydrofuran	12.326	42	158518	8.82	ppbv		94
34) Carbon Tetrachloride	13.194	117	3038	0.07	ppbv	#	89
36) Benzene	13.393	78	16542	0.22	ppbv	#	100
37) n-Heptane	13.399	43	4696	0.10	ppbv		96
44) Methyl Isobutyl Ketone	15.539	43	5426	0.11	ppbv	#	75
46) Toluene	16.531	91	59385	0.85	ppbv		99
51) Tetrachloroethylene	17.716	166	3131	0.09	ppbv		97
57) Ethylbenzene	19.180	91	20454	0.32	ppbv		98
58) p- & m-Xylenes	19.323	91	58455	0.70	ppbv		93
59) o-Xylene	20.104	91	18574	0.25	ppbv		99
60) Styrene	20.123	104	6432	0.10	ppbv	#	74
62) n-Propylbenzene	21.525	91	6047	0.05	ppbv		100
63) Isopropylbenzene	20.756	105	4027	0.04	ppbv		98
66) 4-Ethyltoluene	21.705	105	18730	0.19	ppbv	#	86
67) 1,3,5-Trimethylbenzene	21.835	105	4452	0.06	ppbv	#	85
69) 1,2,4-Trimethylbenzene	22.679	105	18044	0.23	ppbv	#	97
71) p-Isopropyltoluene	23.324	119	3511	0.03	ppbv	#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\032023A\
Data File : TO298095.D
Acq On : 21 Mar 2023 12:08 am
Operator : VH
Sample : 23C0874-03
Misc : QBTO1032023A 0.533X/750ML
ALS Vial : 11 Sample Multiplier: 0.972
InstName : 5975C

Quant Time: Mar 21 16:20:53 2023
Quant Method : C:\msdchem\1\methods\AIR160.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Feb 10 06:43:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.226	49	217087	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.777	114	648686	10.00	ppbv		0.00
54) d5-Chlorobenzene	19.006	117	518483	10.00	ppbv		-0.01
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.171	95	276593	11.54	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.40%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	5.335	85	36253	0.67	ppbv	#	93
4) 1,2-Dichlorotetrafluor...	5.602	85	2846	0.03	ppbv		89
5) Chloromethane	5.819	50	14013m	0.75	ppbv		
10) ethanol	7.276	45	4296994	439.01	ppbv		88
12) Trichlorofluoromethane	7.698	101	13572	0.26	ppbv		96
13) Isopropanol	8.182	45	1211509	33.88	ppbv		100
14) Acrolein	8.300	56	3051	0.48	ppbv	#	100
15) Acetone	8.405	43	404786	12.77	ppbv		100
16) Freon-113	8.554	101	3226	0.08	ppbv		95
19) Methylene Chloride	9.516	49	12180	0.55	ppbv		96
24) Hexane	10.384	57	4578	0.17	ppbv	#	43
27) 2-Butanone	11.346	43	155431	4.46	ppbv		98
28) Ethyl Acetate	11.643	43	6768	0.17	ppbv	#	73
30) Chloroform	12.003	83	3845	0.10	ppbv	#	93
31) Tetrahydrofuran	12.319	42	260787	13.85	ppbv		95
34) Carbon Tetrachloride	13.188	117	3684	0.09	ppbv		99
36) Benzene	13.393	78	21043	0.27	ppbv	#	100
37) n-Heptane	13.399	43	7283	0.14	ppbv		98
44) Methyl Isobutyl Ketone	15.526	43	7554	0.14	ppbv	#	72
46) Toluene	16.525	91	84829	1.10	ppbv		99
51) Tetrachloroethylene	17.716	166	1747	0.04	ppbv		93
57) Ethylbenzene	19.180	91	26642	0.37	ppbv		97
58) p- & m-Xylenes	19.323	91	72402	0.78	ppbv		94
59) o-Xylene	20.104	91	23522	0.28	ppbv		99
60) Styrene	20.123	104	7671	0.11	ppbv	#	74
62) n-Propylbenzene	21.519	91	7106	0.05	ppbv		99
63) Isopropylbenzene	20.749	105	5231	0.05	ppbv		98
66) 4-Ethyltoluene	21.711	105	23013	0.21	ppbv	#	87
67) 1,3,5-Trimethylbenzene	21.835	105	5724	0.07	ppbv		91
69) 1,2,4-Trimethylbenzene	22.679	105	19555	0.22	ppbv	#	90
71) p-Isopropyltoluene	23.324	119	4622	0.04	ppbv	#	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\032023A\
Data File : TO298096.D
Acq On : 21 Mar 2023 1:07 am
Operator : VH
Sample : 23C0874-04
Misc : QBTO1032023A 0.533X/750ML
ALS Vial : 12 Sample Multiplier: 0.939
InstName : 5975C

Quant Time: Mar 21 16:24:01 2023
Quant Method : C:\msdchem\1\methods\AIR160.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Feb 10 06:43:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.227	49	208884	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.777	114	599713	10.00	ppbv		0.00
54) d5-Chlorobenzene	19.006	117	466567	10.00	ppbv		-0.01
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.171	95	238011	11.03	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.30%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	5.329	85	33763	0.65	ppbv	#	94
4) 1,2-Dichlorotetrafluor...	5.595	85	3009	0.03	ppbv		87
5) Chloromethane	5.819	50	14375m	0.80	ppbv		
10) ethanol	7.277	45	4192268	443.34	ppbv		88
12) Trichlorofluoromethane	7.705	101	13887	0.27	ppbv		97
13) Isopropanol	8.188	45	1579944	44.62	ppbv		100
14) Acrolein	8.306	56	1143	0.19	ppbv	#	100
15) Acetone	8.412	43	349130	11.45	ppbv		97
16) Freon-113	8.567	101	3473	0.09	ppbv		96
19) Methylene Chloride	9.516	49	9663	0.46	ppbv		94
24) Hexane	10.390	57	1648	0.06	ppbv		86
27) 2-Butanone	11.352	43	12249	0.37	ppbv		96
28) Ethyl Acetate	11.650	43	5384	0.14	ppbv	#	76
30) Chloroform	12.003	83	10910	0.28	ppbv		94
31) Tetrahydrofuran	12.332	42	3715	0.21	ppbv	#	75
34) Carbon Tetrachloride	13.194	117	3506m	0.09	ppbv		
36) Benzene	13.393	78	13122	0.18	ppbv	#	100
44) Methyl Isobutyl Ketone	15.533	43	6488	0.13	ppbv		84
46) Toluene	16.525	91	30046	0.42	ppbv		98
57) Ethylbenzene	19.180	91	4636	0.07	ppbv		99
58) p- & m-Xylenes	19.329	91	11237	0.14	ppbv		95
59) o-Xylene	20.104	91	4581	0.06	ppbv		100
60) Styrene	20.123	104	3318	0.05	ppbv	#	74
66) 4-Ethyltoluene	21.717	105	4805	0.05	ppbv		94
69) 1,2,4-Trimethylbenzene	22.679	105	5148	0.07	ppbv	#	87
71) p-Isopropyltoluene	23.324	119	2764	0.02	ppbv	#	99
73) 1,4-Dichlorobenzene	23.684	146	1853	0.04	ppbv	#	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\032023A\
Data File : TO298097.D
Acq On : 21 Mar 2023 2:06 am
Operator : VH
Sample : 23C0874-05
Misc : QBTO1032023A 0.533X/750ML
ALS Vial : 13 Sample Multiplier: 0.921
InstName : 5975C

Quant Time: Mar 21 16:27:38 2023
Quant Method : C:\msdchem\1\methods\AIR160.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Feb 10 06:43:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.226	49	202234	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.777	114	581028	10.00	ppbv		0.00
54) d5-Chlorobenzene	19.006	117	465922	10.00	ppbv		-0.01
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.171	95	259902	12.06	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 120.60%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	5.335	85	29071	0.58	ppbv	#	94
4) 1,2-Dichlorotetrafluor...	5.602	85	2734	0.03	ppbv		88
5) Chloromethane	5.825	50	12954m	0.75	ppbv		
10) ethanol	7.270	45	2961410	353.04	ppbv		88
12) Trichlorofluoromethane	7.704	101	12659	0.26	ppbv		97
13) Isopropanol	8.182	45	1030602	31.17	ppbv		100
14) Acrolein	8.300	56	1282	0.22	ppbv	#	100
15) Acetone	8.405	43	389158	13.18	ppbv		97
16) Freon-113	8.567	101	3169	0.08	ppbv		94
19) Methylene Chloride	9.516	49	8757	0.43	ppbv		94
24) Hexane	10.384	57	1680	0.07	ppbv	#	84
27) 2-Butanone	11.352	43	16110	0.50	ppbv		95
28) Ethyl Acetate	11.643	43	191611	5.16	ppbv		98
30) Chloroform	12.003	83	5989	0.16	ppbv	#	92
34) Carbon Tetrachloride	13.188	117	3439	0.09	ppbv	#	90
36) Benzene	13.393	78	11637	0.16	ppbv	#	100
37) n-Heptane	13.399	43	4856	0.10	ppbv		99
44) Methyl Isobutyl Ketone	15.533	43	15626	0.32	ppbv	#	92
46) Toluene	16.525	91	28554	0.41	ppbv		97
57) Ethylbenzene	19.180	91	216172	3.35	ppbv		95
58) p- & m-Xylenes	19.323	91	772398	9.56	ppbv		91
59) o-Xylene	20.104	91	184675	2.46	ppbv		98
62) n-Propylbenzene	21.525	91	6873	0.06	ppbv		97
66) 4-Ethyltoluene	21.705	105	13979	0.15	ppbv	#	87
69) 1,2,4-Trimethylbenzene	22.679	105	15636	0.20	ppbv	#	95
71) p-Isopropyltoluene	23.324	119	7451	0.07	ppbv	#	99
73) 1,4-Dichlorobenzene	23.683	146	3376	0.06	ppbv		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\032023A\
Data File : TO298098.D
Acq On : 21 Mar 2023 3:06 am
Operator : VH
Sample : 23C0874-06
Misc : QBTO1032023A 0.533X/750ML
ALS Vial : 14 Sample Multiplier: 1.066
InstName : 5975C

Quant Time: Mar 21 16:30:52 2023
Quant Method : C:\msdchem\1\methods\AIR160.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Feb 10 06:43:41 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.226	49	200886	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.777	114	567649	10.00	ppbv		0.00
54) d5-Chlorobenzene	19.006	117	442745	10.00	ppbv		-0.01
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.171	95	229771	11.22	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.20%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	5.341	85	31535	0.63	ppbv	#	91
4) 1,2-Dichlorotetrafluor...	5.608	85	2649	0.03	ppbv		85
5) Chloromethane	5.825	50	12845	0.74	ppbv		98
10) ethanol	7.270	45	179596	31.93	ppbv		87
12) Trichlorofluoromethane	7.698	101	12277	0.25	ppbv		99
13) Isopropanol	8.194	45	66552	2.20	ppbv		100
14) Acrolein	8.306	56	1870	0.32	ppbv	#	100
15) Acetone	8.412	43	179947	6.14	ppbv		97
16) Freon-113	8.554	101	2984	0.08	ppbv		95
19) Methylene Chloride	9.516	49	6960	0.34	ppbv		94
24) Hexane	10.390	57	2470	0.10	ppbv	#	71
27) 2-Butanone	11.352	43	103390	3.21	ppbv		97
31) Tetrahydrofuran	12.326	42	162212	9.31	ppbv		94
34) Carbon Tetrachloride	13.194	117	2794	0.07	ppbv		98
36) Benzene	13.393	78	13192	0.18	ppbv	#	100
37) n-Heptane	13.399	43	3056	0.06	ppbv	#	96
46) Toluene	16.531	91	38372	0.57	ppbv		99
57) Ethylbenzene	19.180	91	11231	0.18	ppbv		99
58) p- & m-Xylenes	19.323	91	27313	0.35	ppbv		93
59) o-Xylene	20.104	91	8063	0.11	ppbv		99
60) Styrene	20.129	104	2345	0.04	ppbv	#	74
62) n-Propylbenzene	21.525	91	2385	0.02	ppbv	#	92
63) Isopropylbenzene	20.749	105	1904	0.02	ppbv	#	89
66) 4-Ethyltoluene	21.711	105	5612	0.06	ppbv	#	94
69) 1,2,4-Trimethylbenzene	22.685	105	3806	0.05	ppbv	#	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23C0874
Client:	Hydro Tech Environmental (Brooklyn)	Project:	220059 107-02 Queens Blvd., Queens, NY
Matrix:	Air		
Batch:	BC31384	Laboratory ID:	BC31384-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.72	97.2	70 - 130
1,1,1-Trichloroethane	10.0	11.2	112	70 - 130
1,1,2,2-Tetrachloroethane	10.0	11.1	111	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.6	106	70 - 130
1,1,2-Trichloroethane	10.0	9.03	90.3	70 - 130
1,1-Dichloroethane	10.0	10.6	106	70 - 130
1,1-Dichloroethylene	10.0	11.8	118	70 - 130
1,2,4-Trichlorobenzene	10.0	8.13	81.3	70 - 130
1,2,4-Trimethylbenzene	10.0	8.17	81.7	70 - 130
1,2-Dibromoethane	10.0	9.19	91.9	70 - 130
1,2-Dichlorobenzene	10.0	7.98	79.8	70 - 130
1,2-Dichloroethane	10.0	11.4	114	70 - 130
1,2-Dichloropropane	10.0	8.93	89.3	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	10.1	101	70 - 130
1,3,5-Trimethylbenzene	10.0	8.28	82.8	70 - 130
1,3-Butadiene	10.0	11.0	110	70 - 130
1,3-Dichlorobenzene	10.0	8.29	82.9	70 - 130
1,3-Dichloropropane	10.0	9.48	94.8	70 - 130
1,4-Dichlorobenzene	10.0	8.06	80.6	70 - 130
1,4-Dioxane	10.0	11.2	112	70 - 130
2-Butanone	10.0	10.8	108	70 - 130
2-Hexanone	10.0	8.23	82.3	70 - 130
3-Chloropropene	10.0	11.8	118	70 - 130
4-Methyl-2-pentanone	10.0	8.79	87.9	70 - 130
Acetone	10.0	9.09	90.9	70 - 130
Acrylonitrile	10.0	12.5	125	70 - 130
Benzene	10.0	7.89	78.9	70 - 130
Benzyl chloride	10.0	8.78	87.8	70 - 130
Bromodichloromethane	10.0	9.65	96.5	70 - 130
Bromoform	10.0	9.09	90.9	70 - 130

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23C0874
Client:	Hydro Tech Environmental (Brooklyn)	Project:	220059 107-02 Queens Blvd., Queens, NY
Matrix:	Air		
Batch:	BC31384	Laboratory ID:	BC31384-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	6.97	69.7 *	70 - 130
Carbon disulfide	10.0	10.4	104	70 - 130
Carbon tetrachloride	10.0	9.91	99.1	70 - 130
Chlorobenzene	10.0	10.3	103	70 - 130
Chloroethane	10.0	11.6	116	70 - 130
Chloroform	10.0	10.8	108	70 - 130
Chloromethane	10.0	10.5	105	70 - 130
cis-1,2-Dichloroethylene	10.0	11.9	119	70 - 130
cis-1,3-Dichloropropylene	10.0	10.2	102	70 - 130
Cyclohexane	10.0	9.76	97.6	70 - 130
Dibromochloromethane	10.0	9.35	93.5	70 - 130
Dichlorodifluoromethane	10.0	10.9	109	70 - 130
Ethyl acetate	10.0	11.1	111	70 - 130
Ethyl Benzene	10.0	10.8	108	70 - 130
Hexachlorobutadiene	10.0	5.64	56.4 *	70 - 130
Isopropanol	10.0	10.4	104	70 - 130
Methyl Methacrylate	10.0	8.78	87.8	70 - 130
Methyl tert-butyl ether (MTBE)	10.0	11.7	117	70 - 130
Methylene chloride	10.0	10.2	102	70 - 130
n-Heptane	10.0	7.75	77.5	70 - 130
n-Hexane	10.0	9.65	96.5	70 - 130
o-Xylene	10.0	8.03	80.3	70 - 130
p- & m- Xylenes	20.0	14.6	72.8	70 - 130
p-Ethyltoluene	10.0	7.92	79.2	70 - 130
Propylene	10.0	12.4	124	70 - 130
Styrene	10.0	7.68	76.8	70 - 130
Tetrachloroethylene	10.0	9.81	98.1	70 - 130
Tetrahydrofuran	10.0	11.6	116	70 - 130
Toluene	10.0	8.76	87.6	70 - 130
trans-1,2-Dichloroethylene	10.0	11.4	114	70 - 130

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23C0874
Client:	Hydro Tech Environmental (Brooklyn)	Project:	220059 107-02 Queens Blvd., Queens, NY
Matrix:	Air		
Batch:	BC31384	Laboratory ID:	BC31384-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
trans-1,3-Dichloropropylene	10.0	10.2	102	70 - 130
Trichloroethylene	10.0	10.0	100	70 - 130
Trichlorofluoromethane (Freon 11)	10.0	10.7	107	70 - 130
Vinyl acetate	10.0	8.23	82.3	70 - 130
Vinyl bromide	10.0	11.9	119	70 - 130
Vinyl Chloride	10.0	9.13	91.3	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

APPENDIX 5

Semi-Annual SSD System Inspection Reports

Inspector name and title	Site Address	Date
Paul I. Matli	107-02 Queens Boulevard, Queens, NY (Site # C241196)	4/26/2023

1. Review of the current remedy		
Identify the current remedy:		
x SSDS		
How many SSDS Systems are used ? SSDS-1; SSDS-2		
2. Review of the current remedy goals		
What schedule has been established for monitoring of SSDS ? Semi Annual		
B. Summary of Remedy Performance Assessment		
1. Evaluate remedy effectiveness:		
Based on information collected since the last O&M review, do monitoring data indicate that the system is failing or could eventually fail to meet remedy goals?		□ Yes x No
Since the last O&M review, have monitoring data exhibited trends indicative of a new or renewed release?		□ Yes x No
Since the last O&M review, have changes in landuse been suggested and or implemented that have the potential to reduce the protectiveness of the SSDS remedy?		□ Yes x No
Since the last O&M review, have contaminants been identified in new locations or at higher concentrations where they pose or have the potential to pose unacceptable risks to receptors?		□ Yes x No
If you answered yes to any of the above questions, did the information suggest the need for immediate action or is the condition being monitored to evaluate the need for future action? Use this space to comment. What actions, if any, have been taken and/or are planned in response to the new information?		□ Immediate Action □ Monitor for future x N/A
Based on your answers to the above questions, is there reason to evaluate the need for a contingent remedy at this time? If yes, use this space to comment.		□ Yes x No
SSDS		
PID at influent into the carbon activated drum: IF-1 at SSDS-1 = 0.0 ; IF-2 at SSDS-2 = 0.0		PPM
PID at effluent nto the carbon activated drum: EF-1 at SSDS-1 = 0.0 ; EF-2 at SSDS-2 = 0.0		PPM
Vacuum guage - SSDS-1 = -30 ; SSDS-2 = -38		Inch H20
Vacuum Reading at the 5 vacuum monitorinbg points : TP-1= -0.52 ; TP-2= -0.48 ; TP-3= -2.09 ; TP-4= -0.48 ; TP-5= -1.34		Inch H20
Blower Condition at SSDS-1		x Function □ Damage
Blower Condition at SSDS-2		x Function □ Damage
Telemetry System Condition		x Function □ Damage
Was the Subslab Depressurization System (SSDS) operating upon arrival? If "No," explain below why the system was not running, efforts taken to restart the SSDS and if the system was operational when leaving. If successful in making the SSDS operational, complete the remainder of the checklist.		x Yes

	□ No
Were all sub-slab vacuum readings less than of equal to - 0.01 inches of water? If "Yes," the SSDS is deemed still effective and the vacuum readings taken during this inspection are now the new baseline readings. If "No," system must be adjusted/amended and the SSDS re-commissioned. Discuss adjustments and amendments below:	x Yes □ No
List below all pertinent observations and actions taken during this Inspection: i.e., sagging/damaged pipes, construction changes to building that may affect the system, pipe leaks that may need smoke test, is building still vacant, has occupancy zoning changed (i.e. commercial to residential), are non-SSDS engineered systems still functioning as designed etc. Add additional pages as needed.	
Did you observe breaking or cracks in the slab cover	x Yes □ No
If yes describe the level of alteration needed for repairs and remedies? Fine cracks consistent with those observed at system start-up in June 2021	

Inspector name and title	Site Address	Date
Paul I. Matli	107-02 Queens Boulevard, Queens, NY (Site # C241196)	1/29/2024

1. Review of the current remedy		
Identify the current remedy:		
x SSDS		
How many SSDS Systems are used ? SSDS-1; SSDS-2		
2. Review of the current remedy goals		
What schedule has been established for monitoring of SSDS ? Semi Annual		
B. Summary of Remedy Performance Assessment		
1. Evaluate remedy effectiveness:		
Based on information collected since the last O&M review, do monitoring data indicate that the system is failing or could eventually fail to meet remedy goals?		□ Yes x No
Since the last O&M review, have monitoring data exhibited trends indicative of a new or renewed release?		□ Yes x No
Since the last O&M review, have changes in landuse been suggested and or implemented that have the potential to reduce the protectiveness of the SSDS remedy?		□ Yes x No
Since the last O&M review, have contaminants been identified in new locations or at higher concentrations where they pose or have the potential to pose unacceptable risks to receptors?		□ Yes x No
If you answered yes to any of the above questions, did the information suggest the need for immediate action or is the condition being monitored to evaluate the need for future action? Use this space to comment. What actions, if any, have been taken and/or are planned in response to the new information?		□ Immediate Action □ Monitor for future x N/A
Based on your answers to the above questions, is there reason to evaluate the need for a contingent remedy at this time? If yes, use this space to comment.		□ Yes x No
SSDS		
PID at influent into the carbon activated drum: IF-1 at SSDS-1 = 0.0 ; IF-2 at SSDS-2 = 0.0		PPM
PID at effluent nto the carbon activated drum: EF-1 at SSDS-1 = 0.0 ; EF-2 at SSDS-2 = 0.0		PPM
Vacuum guage - SSDS-1 = -30 ; SSDS-2 = -42		Inch H20
Vacuum Reading at the 5 vacuum monitorinbg points : TP-1= -0.67 ; TP-2= -0.57 ; TP-3= -2.41 ; TP-4= -0.52 ; TP-5= -1.58		Inch H20
Blower Condition at SSDS-1		x Function □ Damage
Blower Condition at SSDS-2		x Function □ Damage
Telemetry System Condition		x Function □ Damage
Was the Subslab Depressurization System (SSDS) operating upon arrival? If "No," explain below why the system was not running, efforts taken to restart the SSDS and if the system was operational when leaving. If successful in making the SSDS operational, complete the remainder of the checklist.		x Yes

	□ No
Were all sub-slab vacuum readings less than of equal to - 0.01 inches of water? If "Yes," the SSDS is deemed still effective and the vacuum readings taken during this inspection are now the new baseline readings. If "No," system must be adjusted/amended and the SSDS re-commissioned. Discuss adjustments and amendments below:	x Yes □ No
List below all pertinent observations and actions taken during this Inspection: i.e., sagging/damaged pipes, construction changes to building that may affect the system, pipe leaks that may need smoke test, is building still vacant, has occupancy zoning changed (i.e. commercial to residential), are non-SSDS engineered systems still functioning as designed etc. Add additional pages as needed.	
Did you observe breaking or cracks in the slab cover	x Yes □ No
If yes describe the level of alteration needed for repairs and remedies? Fine cracks continue to be obsreved in slab in sub-cellar. Slab in cellar is covered by a gym rubber mat and ceramic tiles	

APPENDIX 6

Monthly SSD System Inspections Checklists

Monthly Inspection Checklist
Active Sub Slab Depressurization System (SSDS)
Building Management Form – Site C241196

This system protects public safety and must be operating properly to ensure the safety of occupants of the building. If you identify any problems with this system, contact HydroTech Environmental Engineering and Geology DPC for instructions and directions.

Checklist for SSDS-1 - Sub-Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading – Inch H2O?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-26
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-1, TP-2 and TP-3 intact ?		X	If "**No**," add comment and contact HydroTech	

Checklist for SSDS-2 - Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		X	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		X	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-27
Is the system Telemetry operational?		X	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	X		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		X	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-4 and TP-5 intact ?		X	If "**No**," add comment and contact HydroTech	

This form must be signed, kept on file at the building location and be available on inspection.

Name of Building Maintenance Personnel Performing Inspection: _____ISAT KOLAR_____

Signature of Building Maintenance Personnel Performing Inspection: _____I. K_____

Date of Inspection: _____1 / 31 / 2023_____

Monthly Inspection Checklist
Active Sub Slab Depressurization System (SSDS)
Building Management Form – Site C241196

This system protects public safety and must be operating properly to ensure the safety of occupants of the building. If you identify any problems with this system, contact HydroTech Environmental Engineering and Geology DPC for instructions and directions.

Checklist for SSDS-1 - Sub-Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading – Inch H2O?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-26
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-1, TP-2 and TP-3 intact ?		X	If "**No**," add comment and contact HydroTech	

Checklist for SSDS-2 - Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		X	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		X	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-27
Is the system Telemetry operational?		X	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	X		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		X	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-4 and TP-5 intact ?		X	If "**No**," add comment and contact HydroTech	

This form must be signed, kept on file at the building location and be available on inspection.

Name of Building Maintenance Personnel Performing Inspection: _____ISAT KOLAR_____

Signature of Building Maintenance Personnel Performing Inspection: _____I. K_____

Date of Inspection: _____2 / 28 / 2023_____

Monthly Inspection Checklist
Active Sub Slab Depressurization System (SSDS)
Building Management Form – Site C241196

This system protects public safety and must be operating properly to ensure the safety of occupants of the building. If you identify any problems with this system, contact HydroTech Environmental Engineering and Geology DPC for instructions and directions.

Checklist for SSDS-1 - Sub-Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading – Inch H2O?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-26
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-1, TP-2 and TP-3 intact ?		X	If "**No**," add comment and contact HydroTech	

Checklist for SSDS-2 - Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		X	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		X	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-27
Is the system Telemetry operational?		X	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	X		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		X	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-4 and TP-5 intact ?		X	If "**No**," add comment and contact HydroTech	

This form must be signed, kept on file at the building location and be available on inspection.

Name of Building Maintenance Personnel Performing Inspection: _____ISAT KOLAR_____

Signature of Building Maintenance Personnel Performing Inspection: _____I. K_____

Date of Inspection: _____3 / 31 / 2023_____

Monthly Inspection Checklist
Active Sub Slab Depressurization System (SSDS)
Building Management Form – Site C241196

This system protects public safety and must be operating properly to ensure the safety of occupants of the building. If you identify any problems with this system, contact HydroTech Environmental Engineering and Geology DPC for instructions and directions.

Checklist for SSDS-1 - Sub-Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate a proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading – Inch H2O?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-26
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		x	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		x	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	x		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	x		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-1, TP-2 and TP-3 intact ?		x	If "**No**," add comment and contact HydroTech	

Checklist for SSDS-2 – Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-27
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-4 and TP-5 intact ?		X	If "**No**," add comment and contact HydroTech	

This form must be signed, kept on file at the building location and be available on inspection.

Name of Building Maintenance Personnel Performing Inspection: _____SHABAN KOLAR_____

Signature of Building Maintenance Personnel Performing Inspection: _____S. K_____

Date of Inspection: _____4 / 28 / 2023_____

Monthly Inspection Checklist
Active Sub Slab Depressurization System (SSDS)
Building Management Form – Site C241196

This system protects public safety and must be operating properly to ensure the safety of occupants of the building. If you identify any problems with this system, contact HydroTech Environmental Engineering and Geology DPC for instructions and directions.

Checklist for SSDS-1 - Sub-Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading – Inch H2O?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-26
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-1, TP-2 and TP-3 intact ?		X	If "**No**," add comment and contact HydroTech	

Checklist for SSDS-2 - Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		X	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		X	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-27
Is the system Telemetry operational?		X	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	X		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		X	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-4 and TP-5 intact ?		X	If "**No**," add comment and contact HydroTech	

This form must be signed, kept on file at the building location and be available on inspection.

Name of Building Maintenance Personnel Performing Inspection: _____ISAT KOLAR_____

Signature of Building Maintenance Personnel Performing Inspection: _____I. K_____

Date of Inspection: _____5 / 31 / 2023_____

Monthly Inspection Checklist
Active Sub Slab Depressurization System (SSDS)
Building Management Form – Site C241196

This system protects public safety and must be operating properly to ensure the safety of occupants of the building. If you identify any problems with this system, contact HydroTech Environmental Engineering and Geology DPC for instructions and directions.

Checklist for SSDS-1 - Sub-Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading – Inch H2O?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-26
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-1, TP-2 and TP-3 intact ?		X	If "**No**," add comment and contact HydroTech	

Checklist for SSDS-2 - Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		X	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		X	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-27
Is the system Telemetry operational?		X	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	X		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		X	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-4 and TP-5 intact ?		X	If "**No**," add comment and contact HydroTech	

This form must be signed, kept on file at the building location and be available on inspection.

Name of Building Maintenance Personnel Performing Inspection: _____ISAT KOLAR_____

Signature of Building Maintenance Personnel Performing Inspection: _____I. K_____

Date of Inspection: _____6 / 30 / 2023_____

Monthly Inspection Checklist
Active Sub Slab Depressurization System (SSDS)
Building Management Form – Site C241196

This system protects public safety and must be operating properly to ensure the safety of occupants of the building. If you identify any problems with this system, contact HydroTech Environmental Engineering and Geology DPC for instructions and directions.

Checklist for SSDS-1 - Sub-Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading – Inch H2O?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-26
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-1, TP-2 and TP-3 intact ?		X	If "**No**," add comment and contact HydroTech	

Checklist for SSDS-2 - Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		X	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		X	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-27
Is the system Telemetry operational?		X	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	X		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		X	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-4 and TP-5 intact ?		X	If "**No**," add comment and contact HydroTech	

This form must be signed, kept on file at the building location and be available on inspection.

Name of Building Maintenance Personnel Performing Inspection: _____ISAT KOLAR_____

Signature of Building Maintenance Personnel Performing Inspection: _____I. K_____

Date of Inspection: _____7 / 31 / 2023_____

Monthly Inspection Checklist
Active Sub Slab Depressurization System (SSDS)
Building Management Form – Site C241196

This system protects public safety and must be operating properly to ensure the safety of occupants of the building. If you identify any problems with this system, contact HydroTech Environmental Engineering and Geology DPC for instructions and directions.

Checklist for SSDS-1 - Sub-Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading – Inch H2O?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-26
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-1, TP-2 and TP-3 intact ?		X	If "**No**," add comment and contact HydroTech	

Checklist for SSDS-2 - Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		X	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		X	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-27
Is the system Telemetry operational?		X	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	X		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		X	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-4 and TP-5 intact ?		X	If "**No**," add comment and contact HydroTech	

This form must be signed, kept on file at the building location and be available on inspection.

Name of Building Maintenance Personnel Performing Inspection: _____ISAT KOLAR_____

Signature of Building Maintenance Personnel Performing Inspection: _____I. K_____

Date of Inspection: _____8 / 31 / 2023_____

Monthly Inspection Checklist
Active Sub Slab Depressurization System (SSDS)
Building Management Form – Site C241196

This system protects public safety and must be operating properly to ensure the safety of occupants of the building. If you identify any problems with this system, contact HydroTech Environmental Engineering and Geology DPC for instructions and directions.

Checklist for SSDS-1 - Sub-Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate a proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading – Inch H2O?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-26
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		x	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		x	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	x		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	x		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-1, TP-2 and TP-3 intact ?		x	If "**No**," add comment and contact HydroTech	

Checklist for SSDS-2 – Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-27
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-4 and TP-5 intact ?		X	If "**No**," add comment and contact HydroTech	

This form must be signed, kept on file at the building location and be available on inspection.

Name of Building Maintenance Personnel Performing Inspection: _____SHABAN KOLAR_____

Signature of Building Maintenance Personnel Performing Inspection: _____S. K_____

Date of Inspection: _____9 / 30 / 2023_____

Monthly Inspection Checklist
Active Sub Slab Depressurization System (SSDS)
Building Management Form – Site C241196

This system protects public safety and must be operating properly to ensure the safety of occupants of the building. If you identify any problems with this system, contact HydroTech Environmental Engineering and Geology DPC for instructions and directions.

Checklist for SSDS-1 - Sub-Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate a proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading – Inch H2O?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-26
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		x	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		x	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	x		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	x		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-1, TP-2 and TP-3 intact ?		x	If "**No**," add comment and contact HydroTech	

Checklist for SSDS-2 – Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-28
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-4 and TP-5 intact ?		X	If "**No**," add comment and contact HydroTech	

This form must be signed, kept on file at the building location and be available on inspection.

Name of Building Maintenance Personnel Performing Inspection: _____SHABAN KOLAR_____

Signature of Building Maintenance Personnel Performing Inspection: _____S. K_____

Date of Inspection: _____10 / 31 / 2023_____

Monthly Inspection Checklist
Active Sub Slab Depressurization System (SSDS)
Building Management Form – Site C241196

This system protects public safety and must be operating properly to ensure the safety of occupants of the building. If you identify any problems with this system, contact HydroTech Environmental Engineering and Geology DPC for instructions and directions.

Checklist for SSDS-1 - Sub-Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate a proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading – Inch H2O?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-25
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		x	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		x	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	x		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	x		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-1, TP-2 and TP-3 intact ?		x	If "**No**," add comment and contact HydroTech	

Checklist for SSDS-2 – Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-27
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-4 and TP-5 intact ?		X	If "**No**," add comment and contact HydroTech	

This form must be signed, kept on file at the building location and be available on inspection.

Name of Building Maintenance Personnel Performing Inspection: _____SHABAN KOLAR_____

Signature of Building Maintenance Personnel Performing Inspection: _____S. K_____

Date of Inspection: _____11 / 30 / 2023_____

Monthly Inspection Checklist
Active Sub Slab Depressurization System (SSDS)
Building Management Form – Site C241196

This system protects public safety and must be operating properly to ensure the safety of occupants of the building. If you identify any problems with this system, contact HydroTech Environmental Engineering and Geology DPC for instructions and directions.

Checklist for SSDS-1 - Sub-Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate a proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading – Inch H2O?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-25
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		x	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		x	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	x		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	x		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-1, TP-2 and TP-3 intact ?		x	If "**No**," add comment and contact HydroTech	

Checklist for SSDS-2 – Cellar

Question	No	Yes	Directions	Comments
Is the system pressure gauge operational?		x	If "**No**," add comment and contact HydroTech	
Does the system pressure gauge indicate proper vacuum?		x	If "**No**," add comment and contact HydroTech	
What is the pressure gauge reading?			If reading is less than **20**, then contact HydroTech to assist with a diagnostic to increase the vacuum and request a repair, if needed	-27
Is the system Telemetry operational?		x	If "**No**," add comment and contact HydroTech	
Is the knockout drum emptied	x		If "**Yes**," add how many gallons discharged and where liquid is stored for proper disposal	
Is the system blower operating?		x	If "**No**," add comment and contact HydroTech	
What color is the breakthrough detector on GAC drum			If brown color, add comment and contact HydroTech	PINK
Is air being discharged from the system vent?		X	If "**No**," add comment and contact HydroTech	
Are clamps in system piping properly fastened and seals near the blower intact and properly sealed?		X	If "**No**," add comment and contact HydroTech	
Are there any holes, cracks, or other physical deficiencies in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	

Are there any blockages in SSDS piping?	X		If "**Yes**," add comment and contact HydroTech	
Are vacuum monitoring points TP-4 and TP-5 intact ?		X	If "**No**," add comment and contact HydroTech	

This form must be signed, kept on file at the building location and be available on inspection.

Name of Building Maintenance Personnel Performing Inspection: _____SHABAN KOLAR_____

Signature of Building Maintenance Personnel Performing Inspection: _____S. K_____

Date of Inspection: _____12 / 28 / 2023_____

APPENDIX 7

GAC Influent/Effluent Samples Laboratory Analytical Reports

Technical Report

prepared for:

Hydro Tech Environmental (Brooklyn)
231 West 29th Street, Suite 1104
New York NY, 10001
Attention: Paul Matli

Report Date: 05/04/2023
Client Project ID: 230021 - 107-02 Queens Blvd Queens, NY
York Project (SDG) No.: 23D1527

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

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

Site Details **Box 1**

Site No. C241196

Site Name 107-02 Queens Boulevard

Site Address: 107-02 to 107-16 Queens Boulevard Zip Code: 11375
City/Town: Queens
County: Queens
Site Acreage: 0.390

Reporting Period: January 29, 2023 to January 29, 2024

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

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	☐
7. Are all ICs in place and functioning as designed?	X	☐

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

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

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

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

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

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

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

SITE NO. C241196 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
3238-44	De Boulevard LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan O&M Plan

The property may be used for: restricted residential; commercial, industrial.

All ECs must be operated and maintained as specified in this SMP;

All ECs must be inspected at a frequency and in a manner defined in the SMP.

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

All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP;

The potential for vapor intrusion must be evaluated for any buildings developed on the site.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
3238-44	Vapor Mitigation

The engineering control is a sub-slab depressurization system (SSDS) for vapor mitigation installed at the site. The SSDS will be operated, monitored and maintained per the SMP.

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

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

YES	NO
X	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

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

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

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

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

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

YES	NO
X	☐

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

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

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

X

IC CERTIFICATIONS
SITE NO. C241196

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I Rudolf Abramov _____ at 215-015 Northern Blvd, Bayside, NY 11361 _____,
print name print business address

am certifying as De Boulevard LLC _____(Owner or Remedial Party)

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

_____ _____
Signature of Owner, Remedial Party, or Designated Representative Date
Rendering Certification

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

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

I Tarek Z. Khouri at HydroTech Environmental Engineering and Geology, DPC,
print name print business address

am certifying as a Professional Engineer for the De Boulevard LLC
(Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date

Report Date: 05/04/2023
Client Project ID: 230021 - 107-02 Queens Blvd Queens, NY
York Project (SDG) No.: 23D1527

Hydro Tech Environmental (Brooklyn)
231 West 29th Street, Suite 1104
New York NY, 10001
Attention: Paul Matli

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 April 26, 2023 and listed below. The project was identified as your project: **230021 - 107-02 Queens Blvd Queens, NY**.

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
23D1527-01	IF-1	Soil Vapor	04/26/2023	04/26/2023
23D1527-02	EF-1	Soil Vapor	04/26/2023	04/26/2023
23D1527-03	IF-2	Soil Vapor	04/26/2023	04/26/2023
23D1527-04	EF-2	Soil Vapor	04/26/2023	04/26/2023

General Notes for York Project (SDG) No.: 23D1527

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:** 05/04/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **IF-1** **York Sample ID:** **23D1527-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23D1527	230021 - 107-02 Queens Blvd Queens, NY	Soil Vapor	April 26, 2023 10:31 am	04/26/2023

Volatile Organics, EPA TO15 Full List

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	1.2	1.722	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 16:43	YR
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.94	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.2	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.3	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.94	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.70	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.17	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	2.6	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
95-63-6	**1,2,4-Trimethylbenzene**	**2.0**		ug/m³	0.85	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.3	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	1.0	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.70	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.80	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.2	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.85	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
106-99-0	1,3-Butadiene	ND		ug/m³	1.1	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	1.0	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.80	1.722	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 16:43	YR
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	1.0	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
123-91-1	1,4-Dioxane	ND		ug/m³	1.2	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
78-93-3	**2-Butanone**	**4.4**		ug/m³	0.51	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
591-78-6	* 2-Hexanone	ND		ug/m³	1.4	1.722	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 16:43	YR

Sample Information

Client Sample ID: IF-1 **York Sample ID:** 23D1527-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23D1527	230021 - 107-02 Queens Blvd Queens, NY	Soil Vapor	April 26, 2023 10:31 am	04/26/2023

Volatile Organics, EPA TO15 Full List

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	2.7	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.71	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
67-64-1	**Acetone**	**15**		ug/m³	0.82	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
107-13-1	Acrylonitrile	ND		ug/m³	0.37	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
71-43-2	**Benzene**	**0.94**		ug/m³	0.55	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
100-44-7	Benzyl chloride	ND		ug/m³	0.89	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
75-27-4	Bromodichloromethane	ND		ug/m³	1.2	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
75-25-2	Bromoform	ND		ug/m³	1.8	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
74-83-9	Bromomethane	ND		ug/m³	0.67	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
75-15-0	Carbon disulfide	ND		ug/m³	0.54	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
56-23-5	**Carbon tetrachloride**	**0.65**		ug/m³	0.27	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
108-90-7	Chlorobenzene	ND		ug/m³	0.79	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
75-00-3	Chloroethane	ND		ug/m³	0.45	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
67-66-3	**Chloroform**	**32**		ug/m³	0.84	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
74-87-3	Chloromethane	ND		ug/m³	0.36	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.17	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.78	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
110-82-7	Cyclohexane	ND		ug/m³	0.59	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
124-48-1	Dibromochloromethane	ND		ug/m³	1.5	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
75-71-8	**Dichlorodifluoromethane**	**3.0**		ug/m³	0.85	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
141-78-6	* Ethyl acetate	ND		ug/m³	1.2	1.722	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 16:43	YR
100-41-4	**Ethyl Benzene**	**0.90**		ug/m³	0.75	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.8	1.722	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 16:43	YR

Sample Information

Client Sample ID: IF-1 **York Sample ID:** 23D1527-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23D1527	230021 - 107-02 Queens Blvd Queens, NY	Soil Vapor	April 26, 2023 10:31 am	04/26/2023

Volatile Organics, EPA TO15 Full List

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
67-63-0	**Isopropanol**	**24**		ug/m³	0.85	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
80-62-6	Methyl Methacrylate	ND		ug/m³	0.70	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.62	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-09-2	Methylene chloride	ND		ug/m³	1.2	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
142-82-5	n-Heptane	ND		ug/m³	0.71	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-54-3	n-Hexane	ND		ug/m³	0.61	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-47-6	**o-Xylene**	**1.3**		ug/m³	0.75	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
179601-23-1	**p- & m- Xylenes**	**3.6**		ug/m³	1.5	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
622-96-8	*** p-Ethyltoluene**	**1.4**		ug/m³	0.85	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.30	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.73	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
127-18-4	**Tetrachloroethylene**	**13**		ug/m³	1.2	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
109-99-9	*** Tetrahydrofuran**	**10**		ug/m³	1.0	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications:			
108-88-3	**Toluene**	**2.8**		ug/m³	0.65	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.68	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.78	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
79-01-6	Trichloroethylene	ND		ug/m³	0.23	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.5**		ug/m³	0.97	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-05-4	Vinyl acetate	ND		ug/m³	0.61	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
593-60-2	Vinyl bromide	ND		ug/m³	0.75	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-01-4	Vinyl Chloride	ND		ug/m³	0.22	1.722	EPA TO-15	05/03/2023 09:00	05/03/2023 16:43	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: **EF-1** **York Sample ID:** **23D1527-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23D1527	230021 - 107-02 Queens Blvd Queens, NY	Soil Vapor	April 26, 2023 10:32 am	04/26/2023

Volatile Organics, EPA TO15 Full List

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	1.2	1.79	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 17:46	YR
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.98	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.2	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.4	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.98	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.72	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.18	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	2.7	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
95-63-6	**1,2,4-Trimethylbenzene**	**1.9**		ug/m³	0.88	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.4	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	1.1	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.72	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.83	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.3	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.88	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
106-99-0	1,3-Butadiene	ND		ug/m³	1.2	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	1.1	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.83	1.79	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 17:46	YR
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	1.1	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
123-91-1	1,4-Dioxane	ND		ug/m³	1.3	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
78-93-3	**2-Butanone**	**31**		ug/m³	0.53	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
591-78-6	* 2-Hexanone	ND		ug/m³	1.5	1.79	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 17:46	YR
107-05-1	3-Chloropropene	ND		ug/m³	2.8	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR

Sample Information

Client Sample ID: **EF-1** **York Sample ID:** **23D1527-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23D1527	230021 - 107-02 Queens Blvd Queens, NY	Soil Vapor	April 26, 2023 10:32 am	04/26/2023

Volatile Organics, EPA TO15 Full List

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
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.73	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**21**		ug/m³	0.85	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.39	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	Benzene	ND		ug/m³	0.57	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.93	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	1.2	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	1.9	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ug/m³	0.70	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	Carbon disulfide	ND		ug/m³	0.56	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	**Carbon tetrachloride**	**0.56**		ug/m³	0.28	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.82	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	Chloroethane	ND		ug/m³	0.47	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	**Chloroform**	**18**		ug/m³	0.87	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	Chloromethane	ND		ug/m³	0.37	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.18	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.81	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	Cyclohexane	ND		ug/m³	0.62	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	1.5	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.89	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	1.3	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications:			
100-41-4	**Ethyl Benzene**	**0.93**		ug/m³	0.78	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.9	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-63-0	**Isopropanol**	**26**		ug/m³	0.88	1.79	EPA TO-15	05/03/2023 09:00	05/03/2023 17:46	YR
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: EF-1 **York Sample ID:** 23D1527-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23D1527	230021 - 107-02 Queens Blvd Queens, NY	Soil Vapor	April 26, 2023 10:32 am	04/26/2023

Volatile Organics, EPA TO15 Full List

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
80-62-6	Methyl Methacrylate	ND		ug/m³	0.73	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.65	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
75-09-2	Methylene chloride	ND		ug/m³	1.2	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
142-82-5	n-Heptane	ND		ug/m³	0.73	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
110-54-3	n-Hexane	ND		ug/m³	0.63	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
95-47-6	**o-Xylene**	**1.5**		ug/m³	0.78	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
179601-23-1	**p- & m- Xylenes**	**3.9**		ug/m³	1.6	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
622-96-8	*** p-Ethyltoluene**	**1.5**		ug/m³	0.88	1.79	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 17:46	YR
115-07-1	* Propylene	ND		ug/m³	0.31	1.79	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 17:46	YR
100-42-5	Styrene	ND		ug/m³	0.76	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
127-18-4	Tetrachloroethylene	ND		ug/m³	1.2	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
109-99-9	*** Tetrahydrofuran**	**100**		ug/m³	1.1	1.79	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 17:46	YR
108-88-3	**Toluene**	**2.4**		ug/m³	0.67	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.71	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.81	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
79-01-6	Trichloroethylene	ND		ug/m³	0.24	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.4**		ug/m³	1.0	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
108-05-4	Vinyl acetate	ND		ug/m³	0.63	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
593-60-2	Vinyl bromide	ND		ug/m³	0.78	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR
75-01-4	Vinyl Chloride	ND		ug/m³	0.23	1.79	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 17:46	YR

Sample Information

Client Sample ID: IF-2 **York Sample ID:** 23D1527-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23D1527	230021 - 107-02 Queens Blvd Queens, NY	Soil Vapor	April 26, 2023 10:30 am	04/26/2023

Volatile Organics, EPA TO15 Full List

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	1.1	1.542	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 18:49	YR
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.84	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.84	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.62	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	2.3	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
95-63-6	**1,2,4-Trimethylbenzene**	**1.7**		ug/m³	0.76	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.93	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.62	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.71	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.76	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
106-99-0	1,3-Butadiene	ND		ug/m³	1.0	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.93	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.71	1.542	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 18:49	YR
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.93	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
78-93-3	**2-Butanone**	**2.0**		ug/m³	0.45	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
591-78-6	* 2-Hexanone	ND		ug/m³	1.3	1.542	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 18:49	YR
107-05-1	3-Chloropropene	ND		ug/m³	2.4	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR

Sample Information

Client Sample ID: IF-2 **York Sample ID:** 23D1527-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23D1527	230021 - 107-02 Queens Blvd Queens, NY	Soil Vapor	April 26, 2023 10:30 am	04/26/2023

Volatile Organics, EPA TO15 Full List

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
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.63	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
67-64-1	**Acetone**	**7.4**		ug/m³	0.73	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
107-13-1	Acrylonitrile	ND		ug/m³	0.33	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
71-43-2	**Benzene**	**1.3**		ug/m³	0.49	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
100-44-7	Benzyl chloride	ND		ug/m³	0.80	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
75-25-2	Bromoform	ND		ug/m³	1.6	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
74-83-9	Bromomethane	ND		ug/m³	0.60	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
75-15-0	Carbon disulfide	ND		ug/m³	0.48	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
56-23-5	**Carbon tetrachloride**	**0.58**		ug/m³	0.24	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
108-90-7	Chlorobenzene	ND		ug/m³	0.71	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
75-00-3	Chloroethane	ND		ug/m³	0.41	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
67-66-3	**Chloroform**	**56**		ug/m³	0.75	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
74-87-3	Chloromethane	ND		ug/m³	0.32	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.15	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.70	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
110-82-7	Cyclohexane	ND		ug/m³	0.53	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
75-71-8	**Dichlorodifluoromethane**	**3.1**		ug/m³	0.76	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.542	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 18:49	YR
100-41-4	**Ethyl Benzene**	**0.80**		ug/m³	0.67	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.6	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
67-63-0	**Isopropanol**	**18**		ug/m³	0.76	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR

Sample Information

Client Sample ID: IF-2 **York Sample ID:** 23D1527-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23D1527	230021 - 107-02 Queens Blvd Queens, NY	Soil Vapor	April 26, 2023 10:30 am	04/26/2023

Volatile Organics, EPA TO15 Full List

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
80-62-6	Methyl Methacrylate	ND		ug/m³	0.63	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.56	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
75-09-2	Methylene chloride	ND		ug/m³	1.1	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
142-82-5	n-Heptane	ND		ug/m³	0.63	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
110-54-3	**n-Hexane**	**0.71**		ug/m³	0.54	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
95-47-6	**o-Xylene**	**1.1**		ug/m³	0.67	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
179601-23-1	**p- & m- Xylenes**	**3.2**		ug/m³	1.3	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
622-96-8	*** p-Ethyltoluene**	**1.3**		ug/m³	0.76	1.542	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 18:49	YR
115-07-1	* Propylene	ND		ug/m³	0.27	1.542	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 18:49	YR
100-42-5	Styrene	ND		ug/m³	0.66	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
127-18-4	**Tetrachloroethylene**	**16**		ug/m³	1.0	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
109-99-9	*** Tetrahydrofuran**	**4.0**		ug/m³	0.91	1.542	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 18:49	YR
108-88-3	**Toluene**	**2.6**		ug/m³	0.58	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.61	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.70	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
79-01-6	**Trichloroethylene**	**0.50**		ug/m³	0.21	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
75-69-4	**Trichlorofluoromethane (Freon 11)**	**3.9**		ug/m³	0.87	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
108-05-4	Vinyl acetate	ND		ug/m³	0.54	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
593-60-2	Vinyl bromide	ND		ug/m³	0.67	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR
75-01-4	Vinyl Chloride	ND		ug/m³	0.20	1.542	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 18:49	YR

Sample Information

Client Sample ID: EF-2 **York Sample ID:** 23D1527-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23D1527	230021 - 107-02 Queens Blvd Queens, NY	Soil Vapor	April 26, 2023 10:33 am	04/26/2023

Volatile Organics, EPA TO15 Full List

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	1.2	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.98	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.2	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.4	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.98	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.73	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.18	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	2.7	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.88	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.4	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	1.1	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.73	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.83	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.3	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.88	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	1.2	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	1.1	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.83	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	1.1	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	1.3	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**1.3**		ug/m³	0.53	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	1.5	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	2.8	1.798	EPA TO-15	05/03/2023 09:00	05/03/2023 19:52	YR
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: EF-2 **York Sample ID:** 23D1527-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23D1527	230021 - 107-02 Queens Blvd Queens, NY	Soil Vapor	April 26, 2023 10:33 am	04/26/2023

Volatile Organics, EPA TO15 Full List

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
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.74	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
67-64-1	**Acetone**	**4.3**		ug/m³	0.85	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
107-13-1	Acrylonitrile	ND		ug/m³	0.39	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
71-43-2	Benzene	ND		ug/m³	0.57	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
100-44-7	Benzyl chloride	ND		ug/m³	0.93	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
75-27-4	Bromodichloromethane	ND		ug/m³	1.2	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
75-25-2	Bromoform	ND		ug/m³	1.9	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
74-83-9	Bromomethane	ND		ug/m³	0.70	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
75-15-0	Carbon disulfide	ND		ug/m³	0.56	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
56-23-5	Carbon tetrachloride	ND		ug/m³	0.28	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
108-90-7	Chlorobenzene	ND		ug/m³	0.83	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
75-00-3	Chloroethane	ND		ug/m³	0.47	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
67-66-3	**Chloroform**	**29**		ug/m³	0.88	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
74-87-3	Chloromethane	ND		ug/m³	0.37	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.18	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.82	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
110-82-7	Cyclohexane	ND		ug/m³	0.62	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
124-48-1	Dibromochloromethane	ND		ug/m³	1.5	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
75-71-8	**Dichlorodifluoromethane**	**3.2**		ug/m³	0.89	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
141-78-6	* Ethyl acetate	ND		ug/m³	1.3	1.798	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 19:52	YR
100-41-4	Ethyl Benzene	ND		ug/m³	0.78	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.9	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
67-63-0	**Isopropanol**	**23**		ug/m³	0.88	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR

Sample Information

Client Sample ID: **EF-2** **York Sample ID:** **23D1527-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23D1527	230021 - 107-02 Queens Blvd Queens, NY	Soil Vapor	April 26, 2023 10:33 am	04/26/2023

Volatile Organics, EPA TO15 Full List

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
80-62-6	Methyl Methacrylate	ND		ug/m³	0.74	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.65	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
75-09-2	Methylene chloride	ND		ug/m³	1.2	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
142-82-5	n-Heptane	ND		ug/m³	0.74	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
110-54-3	n-Hexane	ND		ug/m³	0.63	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
95-47-6	o-Xylene	ND		ug/m³	0.78	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
179601-23-1	p- & m- Xylenes	ND		ug/m³	1.6	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.88	1.798	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 19:52	YR
115-07-1	* Propylene	ND		ug/m³	0.31	1.798	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 19:52	YR
100-42-5	Styrene	ND		ug/m³	0.77	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
127-18-4	Tetrachloroethylene	ND		ug/m³	1.2	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
109-99-9	*** Tetrahydrofuran**	**2.8**		ug/m³	1.1	1.798	EPA TO-15 Certifications:	05/03/2023 09:00	05/03/2023 19:52	YR
108-88-3	Toluene	ND		ug/m³	0.68	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.71	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.82	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
79-01-6	Trichloroethylene	ND		ug/m³	0.24	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
75-69-4	**Trichlorofluoromethane (Freon 11)**	**3.9**		ug/m³	1.0	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
108-05-4	Vinyl acetate	ND		ug/m³	0.63	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
593-60-2	Vinyl bromide	ND		ug/m³	0.79	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR
75-01-4	Vinyl Chloride	ND		ug/m³	0.23	1.798	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/03/2023 09:00	05/03/2023 19:52	YR

Analytical Batch Summary

Batch ID: BE30308 **Preparation Method:** EPA TO15 PREP **Prepared By:** YR

YORK Sample ID	Client Sample ID	Preparation Date
23D1527-01	IF-1	05/03/23
23D1527-02	EF-1	05/03/23
23D1527-03	IF-2	05/03/23
23D1527-04	EF-2	05/03/23
BE30308-BLK1	Blank	05/03/23
BE30308-BS1	LCS	05/03/23
BE30308-DUP1	Duplicate	05/03/23

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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30308 - EPA TO15 PREP											
Blank (BE30308-BLK1)											Prepared & Analyzed: 05/03/2023
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	1.0	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								

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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30308 - EPA TO15 PREP											
Blank (BE30308-BLK1)									Prepared & Analyzed: 05/03/2023		
n-Heptane	ND	0.41	ug/m³								
n-Hexane	ND	0.35	"								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.68	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.13	"								
LCS (BE30308-BS1)									Prepared & Analyzed: 05/03/2023		
1,1,1,2-Tetrachloroethane	11.7		ppbv	10.0		117	70-130				
1,1,1-Trichloroethane	12.1		"	10.0		121	70-130				
1,1,2,2-Tetrachloroethane	11.6		"	10.0		116	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.5		"	10.0		125	70-130				
1,1,2-Trichloroethane	11.8		"	10.0		118	70-130				
1,1-Dichloroethane	11.2		"	10.0		112	70-130				
1,1-Dichloroethylene	10.9		"	10.0		109	70-130				
1,2,4-Trichlorobenzene	13.8		"	10.0		138	70-130	High Bias			
1,2,4-Trimethylbenzene	11.4		"	10.0		114	70-130				
1,2-Dibromoethane	11.6		"	10.0		116	70-130				
1,2-Dichlorobenzene	12.0		"	10.0		120	70-130				
1,2-Dichloroethane	11.2		"	10.0		112	70-130				
1,2-Dichloropropane	10.8		"	10.0		108	70-130				
1,2-Dichlorotetrafluoroethane	12.1		"	10.0		121	70-130				
1,3,5-Trimethylbenzene	11.2		"	10.0		112	70-130				
1,3-Butadiene	10.3		"	10.0		103	70-130				
1,3-Dichlorobenzene	12.2		"	10.0		122	70-130				
1,3-Dichloropropane	10.9		"	10.0		109	70-130				
1,4-Dichlorobenzene	12.0		"	10.0		120	70-130				
1,4-Dioxane	12.0		"	10.0		120	70-130				
2-Butanone	11.2		"	10.0		112	70-130				
2-Hexanone	10.0		"	10.0		100	70-130				
3-Chloropropene	10.5		"	10.0		105	70-130				
4-Methyl-2-pentanone	9.88		"	10.0		98.8	70-130				
Acetone	10.1		"	10.0		101	70-130				
Acrylonitrile	11.8		"	10.0		118	70-130				
Benzene	12.1		"	10.0		121	70-130				
Benzyl chloride	12.3		"	10.0		123	70-130				
Bromodichloromethane	11.0		"	10.0		110	70-130				
Bromoform	12.5		"	10.0		125	70-130				
Bromomethane	12.5		"	10.0		125	70-130				
Carbon disulfide	12.0		"	10.0		120	70-130				

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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30308 - EPA TO15 PREP											
LCS (BE30308-BS1)								Prepared & Analyzed: 05/03/2023			
Carbon tetrachloride	12.0		ppbv	10.0		120	70-130				
Chlorobenzene	12.0		"	10.0		120	70-130				
Chloroethane	12.2		"	10.0		122	70-130				
Chloroform	12.1		"	10.0		121	70-130				
Chloromethane	11.0		"	10.0		110	70-130				
cis-1,2-Dichloroethylene	10.9		"	10.0		109	70-130				
cis-1,3-Dichloropropylene	11.1		"	10.0		111	70-130				
Cyclohexane	11.7		"	10.0		117	70-130				
Dibromochloromethane	11.8		"	10.0		118	70-130				
Dichlorodifluoromethane	11.8		"	10.0		118	70-130				
Ethyl acetate	11.1		"	10.0		111	70-130				
Ethyl Benzene	11.5		"	10.0		115	70-130				
Hexachlorobutadiene	11.7		"	10.0		117	70-130				
Isopropanol	11.1		"	10.0		111	70-130				
Methyl Methacrylate	11.0		"	10.0		110	70-130				
Methyl tert-butyl ether (MTBE)	11.7		"	10.0		117	70-130				
Methylene chloride	11.1		"	10.0		111	70-130				
n-Heptane	11.0		"	10.0		110	70-130				
n-Hexane	11.6		"	10.0		116	70-130				
o-Xylene	11.4		"	10.0		114	70-130				
p- & m- Xylenes	23.2		"	20.0		116	70-130				
p-Ethyltoluene	11.4		"	10.0		114	70-130				
Propylene	10.3		"	10.0		103	70-130				
Styrene	12.2		"	10.0		122	70-130				
Tetrachloroethylene	11.6		"	10.0		116	70-130				
Tetrahydrofuran	11.2		"	10.0		112	70-130				
Toluene	11.0		"	10.0		110	70-130				
trans-1,2-Dichloroethylene	11.7		"	10.0		117	70-130				
trans-1,3-Dichloropropylene	11.2		"	10.0		112	70-130				
Trichloroethylene	10.6		"	10.0		106	70-130				
Trichlorofluoromethane (Freon 11)	11.9		"	10.0		119	70-130				
Vinyl acetate	9.58		"	10.0		95.8	70-130				
Vinyl bromide	13.1		"	10.0		131	70-130	High Bias			
Vinyl Chloride	9.44		"	10.0		94.4	70-130				

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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30308 - EPA TO15 PREP											
Duplicate (BE30308-DUP1)	*Source sample: 23D1591-06 (Duplicate)								Prepared: 05/03/2023 Analyzed: 05/04/2023		
1,1,1,2-Tetrachloroethane	ND	0.55	ug/m³		ND					25	
1,1,1-Trichloroethane	ND	0.44	"		ND					25	
1,1,2,2-Tetrachloroethane	ND	0.55	"		ND					25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.74	0.62	"		0.74				0.00	25	
1,1,2-Trichloroethane	ND	0.44	"		ND					25	
1,1-Dichloroethane	ND	0.33	"		ND					25	
1,1-Dichloroethylene	ND	0.080	"		ND					25	
1,2,4-Trichlorobenzene	ND	0.60	"		ND					25	
1,2,4-Trimethylbenzene	ND	0.40	"		ND					25	
1,2-Dibromoethane	ND	0.62	"		ND					25	
1,2-Dichlorobenzene	ND	0.48	"		ND					25	
1,2-Dichloroethane	ND	0.33	"		ND					25	
1,2-Dichloropropane	ND	0.37	"		ND					25	
1,2-Dichlorotetrafluoroethane	ND	0.56	"		ND					25	
1,3,5-Trimethylbenzene	ND	0.40	"		ND					25	
1,3-Butadiene	ND	0.53	"		ND					25	
1,3-Dichlorobenzene	ND	0.48	"		ND					25	
1,3-Dichloropropane	ND	0.37	"		ND					25	
1,4-Dichlorobenzene	ND	0.48	"		ND					25	
1,4-Dioxane	ND	0.58	"		ND					25	
2-Butanone	0.95	0.24	"		1.2				22.2	25	
2-Hexanone	ND	0.66	"		ND					25	
3-Chloropropene	ND	1.3	"		ND					25	
4-Methyl-2-pentanone	ND	0.33	"		ND					25	
Acetone	9.0	0.38	"		9.1				1.06	25	
Acrylonitrile	ND	0.17	"		ND					25	
Benzene	0.67	0.26	"		0.67				0.00	25	
Benzyl chloride	ND	0.42	"		ND					25	
Bromodichloromethane	ND	0.54	"		ND					25	
Bromoform	ND	0.83	"		ND					25	
Bromomethane	ND	0.31	"		ND					25	
Carbon disulfide	ND	0.25	"		ND					25	
Carbon tetrachloride	0.51	0.13	"		0.51				0.00	25	
Chlorobenzene	ND	0.37	"		ND					25	
Chloroethane	ND	0.21	"		ND					25	
Chloroform	ND	0.39	"		ND					25	
Chloromethane	1.4	0.17	"		1.4				2.41	25	
cis-1,2-Dichloroethylene	ND	0.080	"		ND					25	
cis-1,3-Dichloropropylene	ND	0.37	"		ND					25	
Cyclohexane	ND	0.28	"		ND					25	
Dibromochloromethane	ND	0.69	"		ND					25	
Dichlorodifluoromethane	2.8	0.40	"		2.9				1.40	25	
Ethyl acetate	ND	0.58	"		ND					25	
Ethyl Benzene	ND	0.35	"		ND					25	
Hexachlorobutadiene	ND	0.86	"		ND					25	
Isopropanol	2.8	0.40	"		2.8				0.717	25	
Methyl Methacrylate	ND	0.33	"		ND					25	
Methyl tert-butyl ether (MTBE)	ND	0.29	"		ND					25	
Methylene chloride	0.87	0.56	"		0.87				0.00	25	
n-Heptane	ND	0.33	"		ND					25	

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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30308 - EPA TO15 PREP											
Duplicate (BE30308-DUP1)	*Source sample: 23D1591-06 (Duplicate)								Prepared: 05/03/2023 Analyzed: 05/04/2023		
n-Hexane	0.48	0.28	ug/m³		0.51				5.71	25	
o-Xylene	ND	0.35	"		ND					25	
p- & m- Xylenes	0.98	0.70	"		1.0				3.51	25	
p-Ethyltoluene	ND	0.40	"		ND					25	
Propylene	ND	0.14	"		ND					25	
Styrene	ND	0.34	"		ND					25	
Tetrachloroethylene	ND	0.55	"		ND					25	
Tetrahydrofuran	ND	0.48	"		ND					25	
Toluene	1.4	0.30	"		1.4				0.00	25	
trans-1,2-Dichloroethylene	ND	0.32	"		ND					25	
trans-1,3-Dichloropropylene	ND	0.37	"		ND					25	
Trichloroethylene	0.61	0.11	"		0.61				0.00	25	
Trichlorofluoromethane (Freon 11)	1.5	0.45	"		1.5				0.00	25	
Vinyl acetate	ND	0.28	"		ND					25	
Vinyl bromide	ND	0.35	"		ND					25	
Vinyl Chloride	ND	0.10	"		ND					25	

Sample and Data Qualifiers Relating to This Work Order

B — Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

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.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

YORK Project No. 23D1527

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.

Page 1 of 1

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Hydrotech Engineering	Company: SAME	Company: SAME	230021	RUSH - Next Day
Address: 231 W 29th St NewYork NY	Address:	Address:	YOUR Project Name: 107-02 Queens Blvd Queens NY	RUSH - Two Day
Phone: 631 241 7161	Phone:	Phone:		RUSH - Three Day
Contact: Paul Mattei	Contact:	Contact:		RUSH - Four Day
E-mail:	E-mail:	E-mail:	YOUR PO#: 53009	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) Brian Edwards

Air Matrix Codes
- AI - Indoor Ambient Air
- AO - Outdoor Amb. Air
- AE - Vapor Extraction Well/ Process Gas/Effluent
- AS - Soil Vapor/Sub-Slab

Samples From
- New York
- New Jersey
- Connecticut
- Pennsylvania
- Other

Report / EDD Type (circle selections)
- Summary Report
- QA Report
- NY ASP A Package
- NY ASP B Package
- Other:
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliv.
- NJDKQP
- Standard Excel EDD
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDEP SRP HazSite

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Certified Canisters: Batch ___ Individual ___

Reporting Units: ug/m³ ✓ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
IF-1	4/26/23 10:31	AS	-30	-9	10044	13563	EPA-TO-15
EF-1	10:15		-30	-8	41931	17901	
IF-2	10:30		-30	-6	28302	17204	
EF-2	10:33		-30	-10	37352	7051	

Comments:

Detection Limits Required
- ≤ 1 ug/m³ ✓
- NYSDEC V1 Limits ___
- Routine Survey ___
- Other ___

Sampling Media
- 6 Liter Canister ✓
- Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Brian Edwards	4/26				
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**
				Anthony Carlo/Mark	4/26/23 13:40

Technical Report

prepared for:

Hydro Tech Environmental
231 West 29th Street, Suite 1104
New York NY, 10001
Attention: Paul Matli

Report Date: 02/07/2024
Client Project ID: 230063 - 107-02 Queens Blvd., Queens, NY
York Project (SDG) No.: 24A1531

Report Date: 02/07/2024
Client Project ID: 230063 - 107-02 Queens Blvd., Queens, NY
York Project (SDG) No.: 24A1531

Hydro Tech Environmental
231 West 29th Street, Suite 1104
New York NY, 10001
Attention: Paul Matli

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 January 29, 2024 and listed below. The project was identified as your project: **230063 - 107-02 Queens Blvd., Queens, NY**.

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
24A1531-01	IF-1	Soil Vapor	01/29/2024	01/29/2024
24A1531-02	EF-1	Soil Vapor	01/29/2024	01/29/2024
24A1531-03	IF-2	Soil Vapor	01/29/2024	01/29/2024
24A1531-04	EF-2	Soil Vapor	01/29/2024	01/29/2024

General Notes for York Project (SDG) No.: 24A1531

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:** 02/07/2024

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: IF-1 **York Sample ID:** 24A1531-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A1531	230063 - 107-02 Queens Blvd., Queens, NY	Soil Vapor	January 29, 2024 11:46 am	01/29/2024

Volatile Organics, EPA TO15 Full List

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	1.0	1.527	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 02:06	VH
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.83	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.0	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.83	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.62	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.1	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
95-63-6	**1,2,4-Trimethylbenzene**	**1.1**		ug/m³	0.75	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.92	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.62	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.71	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.75	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
106-99-0	1,3-Butadiene	ND		ug/m³	1.0	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.92	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.71	1.527	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 02:06	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.92	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
78-93-3	**2-Butanone**	**2.7**		ug/m³	0.45	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
591-78-6	* 2-Hexanone	ND		ug/m³	1.3	1.527	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 02:06	VH

Sample Information

Client Sample ID: IF-1 **York Sample ID:** 24A1531-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A1531	230063 - 107-02 Queens Blvd., Queens, NY	Soil Vapor	January 29, 2024 11:46 am	01/29/2024

Volatile Organics, EPA TO15 Full List

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	2.4	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.63	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
67-64-1	**Acetone**	**18**		ug/m³	0.73	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
107-13-1	Acrylonitrile	ND		ug/m³	0.66	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
71-43-2	**Benzene**	**1.3**		ug/m³	0.49	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
100-44-7	Benzyl chloride	ND		ug/m³	0.79	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
75-25-2	Bromoform	ND		ug/m³	1.6	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
74-83-9	Bromomethane	ND		ug/m³	0.59	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
75-15-0	Carbon disulfide	ND		ug/m³	0.48	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
56-23-5	**Carbon tetrachloride**	**0.48**		ug/m³	0.24	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
108-90-7	Chlorobenzene	ND		ug/m³	0.70	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
75-00-3	Chloroethane	ND		ug/m³	0.40	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
67-66-3	**Chloroform**	**1.5**		ug/m³	0.75	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
74-87-3	**Chloromethane**	**2.8**	TO-LCS-H	ug/m³	0.32	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.15	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.69	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
110-82-7	Cyclohexane	ND		ug/m³	0.53	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
75-71-8	**Dichlorodifluoromethane**	**4.1**		ug/m³	0.76	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.527	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 02:06	VH
100-41-4	**Ethyl Benzene**	**1.3**		ug/m³	0.66	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.6	1.527	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 02:06	VH

Sample Information

Client Sample ID: IF-1 **York Sample ID:** 24A1531-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A1531	230063 - 107-02 Queens Blvd., Queens, NY	Soil Vapor	January 29, 2024 11:46 am	01/29/2024

Volatile Organics, EPA TO15 Full List

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
67-63-0	**Isopropanol**	**16**	B	ug/m³	1.9	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
80-62-6	Methyl Methacrylate	ND		ug/m³	0.63	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.55	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-09-2	**Methylene chloride**	**1.5**		ug/m³	1.1	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
142-82-5	**n-Heptane**	**1.0**		ug/m³	0.63	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
110-54-3	**n-Hexane**	**1.9**		ug/m³	0.54	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
95-47-6	**o-Xylene**	**2.1**		ug/m³	0.66	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
179601-23-1	**p- & m- Xylenes**	**5.2**		ug/m³	1.3	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.75	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.26	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications:			
100-42-5	**Styrene**	**0.85**		ug/m³	0.65	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
127-18-4	**Tetrachloroethylene**	**2.8**		ug/m³	1.0	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
109-99-9	*** Tetrahydrofuran**	**1.1**		ug/m³	0.90	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications:			
108-88-3	**Toluene**	**8.4**		ug/m³	0.58	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.61	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.69	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
79-01-6	Trichloroethylene	ND		ug/m³	0.21	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-69-4	**Trichlorofluoromethane (Freon 11)**	**2.0**		ug/m³	0.86	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
108-05-4	Vinyl acetate	ND		ug/m³	0.54	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
593-60-2	Vinyl bromide	ND		ug/m³	0.67	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-01-4	Vinyl Chloride	ND		ug/m³	0.20	1.527	EPA TO-15	02/06/2024 09:00	02/07/2024 02:06	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: EF-1 **York Sample ID:** 24A1531-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A1531	230063 - 107-02 Queens Blvd., Queens, NY	Soil Vapor	January 29, 2024 11:11 am	01/29/2024

Volatile Organics, EPA TO15 Full List

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	1.2	1.679	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 03:09	VH
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.92	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.2	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.3	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.92	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.68	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.17	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.2	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
95-63-6	**1,2,4-Trimethylbenzene**	**2.1**		ug/m³	0.83	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.3	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	1.0	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.68	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.78	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.2	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.83	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
106-99-0	1,3-Butadiene	ND		ug/m³	1.1	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	1.0	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.78	1.679	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 03:09	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	1.0	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
123-91-1	1,4-Dioxane	ND		ug/m³	1.2	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
78-93-3	**2-Butanone**	**9.3**		ug/m³	0.50	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
591-78-6	* 2-Hexanone	ND		ug/m³	1.4	1.679	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 03:09	VH
107-05-1	3-Chloropropene	ND		ug/m³	2.6	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH

Sample Information

Client Sample ID: EF-1 **York Sample ID:** 24A1531-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A1531	230063 - 107-02 Queens Blvd., Queens, NY	Soil Vapor	January 29, 2024 11:11 am	01/29/2024

Volatile Organics, EPA TO15 Full List

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
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.69	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
67-64-1	**Acetone**	**23**		ug/m³	0.80	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
107-13-1	Acrylonitrile	ND		ug/m³	0.73	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
71-43-2	Benzene	ND		ug/m³	0.54	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
100-44-7	Benzyl chloride	ND		ug/m³	0.87	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
75-27-4	Bromodichloromethane	ND		ug/m³	1.1	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
75-25-2	Bromoform	ND		ug/m³	1.7	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
74-83-9	Bromomethane	ND		ug/m³	0.65	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
75-15-0	Carbon disulfide	ND		ug/m³	0.52	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
56-23-5	**Carbon tetrachloride**	**0.53**		ug/m³	0.26	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
108-90-7	Chlorobenzene	ND		ug/m³	0.77	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
75-00-3	Chloroethane	ND		ug/m³	0.44	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
67-66-3	**Chloroform**	**21**		ug/m³	0.82	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
74-87-3	**Chloromethane**	**1.1**	TO-LCS-H	ug/m³	0.35	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.17	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.76	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
110-82-7	Cyclohexane	ND		ug/m³	0.58	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
124-48-1	Dibromochloromethane	ND		ug/m³	1.4	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
75-71-8	**Dichlorodifluoromethane**	**2.9**		ug/m³	0.83	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
141-78-6	* Ethyl acetate	ND		ug/m³	1.2	1.679	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 03:09	VH
100-41-4	**Ethyl Benzene**	**0.95**		ug/m³	0.73	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.8	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
67-63-0	**Isopropanol**	**380**	TO-IPA, B, E	ug/m³	2.1	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH

Sample Information

Client Sample ID: EF-1 **York Sample ID:** 24A1531-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A1531	230063 - 107-02 Queens Blvd., Queens, NY	Soil Vapor	January 29, 2024 11:11 am	01/29/2024

Volatile Organics, EPA TO15 Full List

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
80-62-6	Methyl Methacrylate	ND		ug/m³	0.69	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.61	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
75-09-2	Methylene chloride	ND		ug/m³	1.2	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
142-82-5	n-Heptane	ND		ug/m³	0.69	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
110-54-3	n-Hexane	ND		ug/m³	0.59	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
95-47-6	**o-Xylene**	**1.2**		ug/m³	0.73	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
179601-23-1	**p- & m- Xylenes**	**4.0**		ug/m³	1.5	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
622-96-8	*** p-Ethyltoluene**	**1.4**		ug/m³	0.83	1.679	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 03:09	VH
115-07-1	* Propylene	ND		ug/m³	0.29	1.679	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 03:09	VH
100-42-5	Styrene	ND		ug/m³	0.72	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
127-18-4	Tetrachloroethylene	ND		ug/m³	1.1	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
109-99-9	*** Tetrahydrofuran**	**18**		ug/m³	0.99	1.679	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 03:09	VH
108-88-3	**Toluene**	**1.8**		ug/m³	0.63	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.67	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.76	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
79-01-6	Trichloroethylene	ND		ug/m³	0.23	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.3**		ug/m³	0.94	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
108-05-4	Vinyl acetate	ND		ug/m³	0.59	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
593-60-2	Vinyl bromide	ND		ug/m³	0.73	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH
75-01-4	Vinyl Chloride	ND		ug/m³	0.21	1.679	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 03:09	VH

Sample Information

Client Sample ID: IF-2 **York Sample ID:** 24A1531-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A1531	230063 - 107-02 Queens Blvd., Queens, NY	Soil Vapor	January 29, 2024 12:00 pm	01/29/2024

Volatile Organics, EPA TO15 Full List

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	1.0	1.488	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 04:12	VH
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.81	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.0	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.1	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.81	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.60	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.1	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
95-63-6	**1,2,4-Trimethylbenzene**	**2.4**		ug/m³	0.73	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.1	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.89	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.60	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.69	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.0	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.73	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
106-99-0	1,3-Butadiene	ND		ug/m³	0.99	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.89	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.69	1.488	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 04:12	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.89	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
78-93-3	**2-Butanone**	**15**		ug/m³	0.44	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
591-78-6	* 2-Hexanone	ND		ug/m³	1.2	1.488	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 04:12	VH
107-05-1	3-Chloropropene	ND		ug/m³	2.3	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH

Sample Information

Client Sample ID: IF-2 **York Sample ID:** 24A1531-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A1531	230063 - 107-02 Queens Blvd., Queens, NY	Soil Vapor	January 29, 2024 12:00 pm	01/29/2024

Volatile Organics, EPA TO15 Full List

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
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.61	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
67-64-1	**Acetone**	**40**		ug/m³	0.71	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
107-13-1	Acrylonitrile	ND		ug/m³	0.65	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
71-43-2	**Benzene**	**0.67**		ug/m³	0.48	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
100-44-7	Benzyl chloride	ND		ug/m³	0.77	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
75-25-2	Bromoform	ND		ug/m³	1.5	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
74-83-9	Bromomethane	ND		ug/m³	0.58	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
75-15-0	Carbon disulfide	ND		ug/m³	0.46	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
56-23-5	**Carbon tetrachloride**	**0.56**		ug/m³	0.23	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
108-90-7	Chlorobenzene	ND		ug/m³	0.69	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
75-00-3	Chloroethane	ND		ug/m³	0.39	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
67-66-3	**Chloroform**	**19**		ug/m³	0.73	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
74-87-3	**Chloromethane**	**0.92**	TO-LCS-H	ug/m³	0.31	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.15	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.68	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
110-82-7	**Cyclohexane**	**0.51**		ug/m³	0.51	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
75-71-8	**Dichlorodifluoromethane**	**4.4**		ug/m³	0.74	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.488	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 04:12	VH
100-41-4	**Ethyl Benzene**	**1.7**		ug/m³	0.65	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.6	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
67-63-0	**Isopropanol**	**20**	B	ug/m³	1.8	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH

Sample Information

Client Sample ID: IF-2 **York Sample ID:** 24A1531-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A1531	230063 - 107-02 Queens Blvd., Queens, NY	Soil Vapor	January 29, 2024 12:00 pm	01/29/2024

Volatile Organics, EPA TO15 Full List

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
80-62-6	Methyl Methacrylate	ND		ug/m³	0.61	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.54	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
75-09-2	Methylene chloride	ND		ug/m³	1.0	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
142-82-5	**n-Heptane**	**0.73**		ug/m³	0.61	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
110-54-3	n-Hexane	ND		ug/m³	0.52	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
95-47-6	**o-Xylene**	**2.2**		ug/m³	0.65	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
179601-23-1	**p- & m- Xylenes**	**7.3**		ug/m³	1.3	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
622-96-8	*** p-Ethyltoluene**	**1.7**		ug/m³	0.73	1.488	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 04:12	VH
115-07-1	* Propylene	ND		ug/m³	0.26	1.488	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 04:12	VH
100-42-5	Styrene	ND		ug/m³	0.63	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
127-18-4	**Tetrachloroethylene**	**8.0**		ug/m³	1.0	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
109-99-9	*** Tetrahydrofuran**	**5.5**		ug/m³	0.88	1.488	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 04:12	VH
108-88-3	**Toluene**	**22**		ug/m³	0.56	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.59	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.68	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
79-01-6	Trichloroethylene	ND		ug/m³	0.20	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
75-69-4	**Trichlorofluoromethane (Freon 11)**	**5.2**		ug/m³	0.84	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
108-05-4	Vinyl acetate	ND		ug/m³	0.52	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
593-60-2	Vinyl bromide	ND		ug/m³	0.65	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH
75-01-4	Vinyl Chloride	ND		ug/m³	0.19	1.488	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 04:12	VH

Sample Information

Client Sample ID: EF-2 **York Sample ID:** 24A1531-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A1531	230063 - 107-02 Queens Blvd., Queens, NY	Soil Vapor	January 29, 2024 11:11 am	01/29/2024

Volatile Organics, EPA TO15 Full List

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	1.3	1.822	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 05:15	VH
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.99	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.3	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
76-13-1	**1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)**	**4.5**		ug/m³	1.4	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.99	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.74	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.18	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.4	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
95-63-6	**1,2,4-Trimethylbenzene**	**2.4**		ug/m³	0.90	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.4	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	1.1	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.74	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.84	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.3	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.90	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
106-99-0	1,3-Butadiene	ND		ug/m³	1.2	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	1.1	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.84	1.822	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 05:15	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	1.1	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
123-91-1	1,4-Dioxane	ND		ug/m³	1.3	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
78-93-3	**2-Butanone**	**12**		ug/m³	0.54	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
591-78-6	* 2-Hexanone	ND		ug/m³	1.5	1.822	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 05:15	VH
107-05-1	3-Chloropropene	ND		ug/m³	2.9	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH

Sample Information

Client Sample ID: EF-2 **York Sample ID:** 24A1531-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A1531	230063 - 107-02 Queens Blvd., Queens, NY	Soil Vapor	January 29, 2024 11:11 am	01/29/2024

Volatile Organics, EPA TO15 Full List

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
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.75	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
67-64-1	**Acetone**	**19**		ug/m³	0.87	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
107-13-1	Acrylonitrile	ND		ug/m³	0.79	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
71-43-2	Benzene	ND		ug/m³	0.58	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
100-44-7	Benzyl chloride	ND		ug/m³	0.94	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
75-27-4	Bromodichloromethane	ND		ug/m³	1.2	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
75-25-2	Bromoform	ND		ug/m³	1.9	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
74-83-9	Bromomethane	ND		ug/m³	0.71	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
75-15-0	Carbon disulfide	ND		ug/m³	0.57	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
56-23-5	**Carbon tetrachloride**	**0.46**		ug/m³	0.29	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
108-90-7	Chlorobenzene	ND		ug/m³	0.84	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
75-00-3	Chloroethane	ND		ug/m³	0.48	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
67-66-3	**Chloroform**	**21**		ug/m³	0.89	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
74-87-3	**Chloromethane**	**1.1**	TO-LCS-H	ug/m³	0.38	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.18	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.83	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
110-82-7	Cyclohexane	ND		ug/m³	0.63	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
124-48-1	Dibromochloromethane	ND		ug/m³	1.6	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
75-71-8	**Dichlorodifluoromethane**	**4.4**		ug/m³	0.90	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
141-78-6	* Ethyl acetate	ND		ug/m³	1.3	1.822	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 05:15	VH
100-41-4	**Ethyl Benzene**	**1.1**		ug/m³	0.79	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.9	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
67-63-0	**Isopropanol**	**440**	TO-IPA, B, E	ug/m³	2.2	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH

Sample Information

Client Sample ID: EF-2 **York Sample ID:** 24A1531-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A1531	230063 - 107-02 Queens Blvd., Queens, NY	Soil Vapor	January 29, 2024 11:11 am	01/29/2024

Volatile Organics, EPA TO15 Full List

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
80-62-6	Methyl Methacrylate	ND		ug/m³	0.75	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.66	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
75-09-2	Methylene chloride	ND		ug/m³	1.3	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
142-82-5	n-Heptane	ND		ug/m³	0.75	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
110-54-3	n-Hexane	ND		ug/m³	0.64	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
95-47-6	**o-Xylene**	**1.6**		ug/m³	0.79	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
179601-23-1	**p- & m- Xylenes**	**4.8**		ug/m³	1.6	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
622-96-8	*** p-Ethyltoluene**	**1.3**		ug/m³	0.90	1.822	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 05:15	VH
115-07-1	* Propylene	ND		ug/m³	0.31	1.822	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 05:15	VH
100-42-5	Styrene	ND		ug/m³	0.78	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
127-18-4	Tetrachloroethylene	ND		ug/m³	1.2	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
109-99-9	*** Tetrahydrofuran**	**20**		ug/m³	1.1	1.822	EPA TO-15 Certifications:	02/06/2024 09:00	02/07/2024 05:15	VH
108-88-3	**Toluene**	**1.9**		ug/m³	0.69	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.72	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.83	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
79-01-6	Trichloroethylene	ND		ug/m³	0.24	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
75-69-4	**Trichlorofluoromethane (Freon 11)**	**4.8**		ug/m³	1.0	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
108-05-4	Vinyl acetate	ND		ug/m³	0.64	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
593-60-2	Vinyl bromide	ND		ug/m³	0.80	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH
75-01-4	Vinyl Chloride	ND		ug/m³	0.23	1.822	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/06/2024 09:00	02/07/2024 05:15	VH

Analytical Batch Summary

Batch ID: BB40437 **Preparation Method:** EPA TO15 PREP **Prepared By:** VH

YORK Sample ID	Client Sample ID	Preparation Date
24A1531-01	IF-1	02/06/24
24A1531-02	EF-1	02/06/24
24A1531-03	IF-2	02/06/24
24A1531-04	EF-2	02/06/24
BB40437-BLK1	Blank	02/06/24
BB40437-BS1	LCS	02/06/24

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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB40437 - EPA TO15 PREP											
Blank (BB40437-BLK1)											Prepared & Analyzed: 02/06/2024
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	0.74	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	0.35	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	0.69	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								

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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB40437 - EPA TO15 PREP											
Blank (BB40437-BLK1)								Prepared & Analyzed: 02/06/2024			
n-Heptane	ND	0.41	ug/m³								
n-Hexane	ND	0.35	"								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.68	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.13	"								
LCS (BB40437-BS1)								Prepared & Analyzed: 02/06/2024			
1,1,1,2-Tetrachloroethane	10.8		ppbv	10.0		108	70-130				
1,1,1-Trichloroethane	9.81		"	10.0		98.1	70-130				
1,1,2,2-Tetrachloroethane	10.8		"	10.0		108	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9		"	10.0		109	70-130				
1,1,2-Trichloroethane	10.4		"	10.0		104	70-130				
1,1-Dichloroethane	11.0		"	10.0		110	70-130				
1,1-Dichloroethylene	11.5		"	10.0		115	70-130				
1,2,4-Trichlorobenzene	9.73		"	10.0		97.3	70-130				
1,2,4-Trimethylbenzene	10.6		"	10.0		106	70-130				
1,2-Dibromoethane	9.95		"	10.0		99.5	70-130				
1,2-Dichlorobenzene	9.62		"	10.0		96.2	70-130				
1,2-Dichloroethane	10.6		"	10.0		106	70-130				
1,2-Dichloropropane	11.1		"	10.0		111	70-130				
1,2-Dichlorotetrafluoroethane	14.3		"	10.0		143	70-130	High Bias			
1,3,5-Trimethylbenzene	10.2		"	10.0		102	70-130				
1,3-Butadiene	15.9		"	10.0		159	70-130	High Bias			
1,3-Dichlorobenzene	10.1		"	10.0		101	70-130				
1,3-Dichloropropane	10.9		"	10.0		109	70-130				
1,4-Dichlorobenzene	10.1		"	10.0		101	70-130				
1,4-Dioxane	8.50		"	10.0		85.0	70-130				
2-Butanone	9.55		"	10.0		95.5	70-130				
2-Hexanone	9.87		"	10.0		98.7	70-130				
3-Chloropropene	10.2		"	10.0		102	70-130				
4-Methyl-2-pentanone	10.1		"	10.0		101	70-130				
Acetone	10.6		"	10.0		106	70-130				
Acrylonitrile	8.75		"	10.0		87.5	70-130				
Benzene	9.64		"	10.0		96.4	70-130				
Benzyl chloride	11.9		"	10.0		119	70-130				
Bromodichloromethane	11.4		"	10.0		114	70-130				
Bromoform	11.0		"	10.0		110	70-130				
Bromomethane	11.1		"	10.0		111	70-130				
Carbon disulfide	9.73		"	10.0		97.3	70-130				

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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB40437 - EPA TO15 PREP											
LCS (BB40437-BS1)								Prepared & Analyzed: 02/06/2024			
Carbon tetrachloride	11.1		ppbv	10.0		111	70-130				
Chlorobenzene	10.8		"	10.0		108	70-130				
Chloroethane	11.4		"	10.0		114	70-130				
Chloroform	10.4		"	10.0		104	70-130				
Chloromethane	14.2		"	10.0		142	70-130	High Bias			
cis-1,2-Dichloroethylene	9.64		"	10.0		96.4	70-130				
cis-1,3-Dichloropropylene	10.2		"	10.0		102	70-130				
Cyclohexane	9.97		"	10.0		99.7	70-130				
Dibromochloromethane	10.3		"	10.0		103	70-130				
Dichlorodifluoromethane	12.6		"	10.0		126	70-130				
Ethyl acetate	9.37		"	10.0		93.7	70-130				
Ethyl Benzene	11.5		"	10.0		115	70-130				
Hexachlorobutadiene	9.01		"	10.0		90.1	70-130				
Isopropanol	9.07		"	10.0		90.7	70-130				
Methyl Methacrylate	10.5		"	10.0		105	70-130				
Methyl tert-butyl ether (MTBE)	10.2		"	10.0		102	70-130				
Methylene chloride	10.9		"	10.0		109	70-130				
n-Heptane	10.3		"	10.0		103	70-130				
n-Hexane	10.8		"	10.0		108	70-130				
o-Xylene	11.1		"	10.0		111	70-130				
p- & m- Xylenes	23.2		"	20.0		116	70-130				
p-Ethyltoluene	11.4		"	10.0		114	70-130				
Propylene	12.1		"	10.0		121	70-130				
Styrene	10.5		"	10.0		105	70-130				
Tetrachloroethylene	8.71		"	10.0		87.1	70-130				
Tetrahydrofuran	9.56		"	10.0		95.6	70-130				
Toluene	10.3		"	10.0		103	70-130				
trans-1,2-Dichloroethylene	10.9		"	10.0		109	70-130				
trans-1,3-Dichloropropylene	9.90		"	10.0		99.0	70-130				
Trichloroethylene	11.2		"	10.0		112	70-130				
Trichlorofluoromethane (Freon 11)	11.2		"	10.0		112	70-130				
Vinyl acetate	8.53		"	10.0		85.3	70-130				
Vinyl bromide	10.8		"	10.0		108	70-130				
Vinyl Chloride	16.0		"	10.0		160	70-130	High Bias			

Sample and Data Qualifiers Relating to This Work Order

TO-LCS-H	The result reported for this compound may be biased high due to its behavior in the analysis batch LCS where it recovered greater than 130% of the expected value.
TO-IPA	The value for isopropanol is estimated. Dilutions are not conducted for this species as not to preclude actionable analytes by dilution.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

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.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

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. 24A1531

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: Hydrotek Env. Eng.	Company: SAME	Company: SAME
Address: 231 W 29 Str New York NY	Address:	Address:
Phone.: 631 241 7165	Phone.:	Phone.:
Contact: Paul Matli	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 230063

YOUR Project Name: 107-02 Queens Blvd Queens NY

YOUR PO#: 53062

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.

David Van Edwards

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

Air Matrix Codes

- AI - Indoor Ambient Air
- AO - Outdoor Amb. Air
- AE - Vapor Extraction Well/ Process Gas/Effluent
- AS - Soil Vapor/Sub-Slab

Samples From

- New York ✓
- New Jersey
- Connecticut
- Pennsylvania
- Other

Report / EDD Type (circle selections)

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

YORK Reg. Comp.

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

Certified Canisters: Batch ✓ Individual ___

Please enter the following ~~REQUIRED~~ Field Data

Reporting Units: ug/m³ ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
IF-1	1/29/24 11:46	AS	-30	27781	191402	- 5	EPA TO-15
EF-1	11:11		-30	23799	19414	- 6	
IF-2	12:00		-30	18306	7269	- 6	
EF-2	11:11		-30	28850	12185	- 6	

Comments:

Detection Limits Required

≤ 1 ug/m³ ___ NYSDEC V1 Limits ___

Routine Survey ___ Other ___

Sampling Media

- 6 Liter Canister ✓
- Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
David Van Edwards	1/29	[illegible]	1/29/24 1235	[illegible]	
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
				[illegible]	1/29/24 1510

APPENDIX 8

EC/IC Inspection and Certification Form

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

Site Details **Box 1**

Site No. C241196

Site Name 107-02 Queens Boulevard

Site Address: 107-02 to 107-16 Queens Boulevard Zip Code: 11375
City/Town: Queens
County: Queens
Site Acreage: 0.390

Reporting Period: January 29, 2023 to January 29, 2024

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

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs in place and functioning as designed?	☒	☐

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

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

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

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

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

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

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

SITE NO. C241196 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
3238-44	De Boulevard LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan O&M Plan

The property may be used for: restricted residential; commercial, industrial.

All ECs must be operated and maintained as specified in this SMP;

All ECs must be inspected at a frequency and in a manner defined in the SMP.

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

All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP;

The potential for vapor intrusion must be evaluated for any buildings developed on the site.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
3238-44	Vapor Mitigation

The engineering control is a sub-slab depressurization system (SSDS) for vapor mitigation installed at the site. The SSDS will be operated, monitored and maintained per the SMP.

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

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

YES	NO
X	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

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

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

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

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

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

YES	NO
X	☐

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

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

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. C241196

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I Rudolf Abramov (print name) at 215-015 Northern Blvd, Bayside, NY 11361 (print business address),

am certifying as De Boulevard LLC (Owner or Remedial Party)

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

DocuSigned by:
Rudolf Abramov
87380F58873C4CD...

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

2/12/2024
Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

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

I Tarek Z. Khouri at 231 West 29th Street, New York, NY 10001.

print name | print business address

am certifying as a Professional Engineer for the De Boulevard LLC

(Owner or Remedial Party)

6-14-2024

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification | Stamp (Required for PE) | Date