

VOLATILE VAPOR INTRUSION (VVI) REPORT

**JOHN F. KENNEDY MIDDLE SCHOOL
500 BROADWAY
BETHPAGE, NEW YORK 11714**

PREPARED FOR:

**BETHPAGE UNION FREE SCHOOL DISTRICT
10 CHERRY AVENUE
BETHPAGE, NEW YORK 11714**

**JCB PROJECT #: 21-48292
MARCH 2021**

**J.C. BRODERICK & ASSOCIATES, INC.
Environmental Consulting & Testing**

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Section No. 1.0: Introduction

J.C. Broderick and Associates, Inc. (JCB) was retained by the Bethpage Union Free School District (Bethpage) to investigate the potential for volatile vapor intrusion (VVI) as a result of the contamination emanating from the Bethpage Community Park site. JCB performed VVI air sampling within the John F. Kennedy Middle School. The sampling protocol was performed essentially in accordance with the requirements of the New York State Department of Health (NYSDOH) "Guidance for Evaluating Soil Vapor Intrusion in the State of New York", Final Version, October 2006 and all available updates.

Section No. 2.0: Site Description and Location

The Subject Site is located at 500 Broadway Bethpage, New York 11714. The Subject Site is located on the east side of Broadway between Michael Court to the north and Gateway Street to the south. According to the United States Geological Survey (USGS) *Huntington, New York, 1992 7.5 Minute Series Topographical Map*, the Subject Site is situated at an approximate elevation of 112 feet (ft) above mean sea level. The location of the Subject Site is shown on the Site Location Map, Appendix-A Figure 1.

Section No. 3.0: Volatile Vapor Intrusion (VVI) Evaluation

The following sections describe the sampling procedures taken.

Section No. 3.1: Pre-Work Field Preparations

On March 31, 2021, a pre-sampling inspection was performed to evaluate the physical layout and conditions of the school building, to specifically determine the location of each sample, identify conditions that may affect or interfere with the proposed sampling and to prepare the building for sampling.

- To document conditions during indoor air sampling and ultimately to aid in the interpretation of the sampling results, the following actions were taken:
 - The storage of volatile chemicals was identified.
 - The use of heating or air conditioning systems during sampling was noted.
 - Floor plan sketches were drawn which include: the floor layout with sampling locations, chemical storage areas, garages, doorways, stairways, locations of basement sumps or subsurface drains and utility perforations through building foundations, HVAC system supply and return registers, compass orientation (north) and footings that create separate foundation sections. Photographs were taken to accompany the floor plan sketches.
 - Any pertinent observations, including readings from a photo-Ionization Detector (PID) and other field instrumentation, were recorded.

Section No. 3.2: Subsurface Vapor Sample Collection

The following summarizes the manner in which subsurface vapor samples were collected. Please refer to Figure No. 2 - Subsurface, Crawlspace, First Floor and Ambient Sampling Locations for additional details.

- For the collection of the subsurface vapor samples, a probe was fabricated from ½-inch diameter, threaded brass pipe with a barbed tubing connection. The two (2) layers of 6-mil polyethylene sheeting were penetrated and a one (1) inch diameter hole was drilled, utilizing a hammer drill, into the sand floor of the crawlspace extending approximately two (2) inches below the top of the sand. The pipe was lowered into the hole, but not flush to the bottom, and set into place utilizing hydrated bentonite powder, which contains no volatile organic compounds (VOCs). A five (5) gallon plastic container was placed on top of the plastic sheeting and above the vapor point. The container was sealed to the plastic sheeting utilizing modeling clay and duct tape. Teflon-lined, ¼-inch I.D. disposable polyethylene tubing was then utilized to connect the barbed connection of the vapor point to a laboratory clean-certified, 6-liter SUMMA[®] canister, provided by York Analytical Laboratories, Inc. (York) through a flow controller pre-set for an eight (8) hour long sample duration. The tubing included a tee connection and valve to a purging vacuum pump calibrated for a flow rate of less than 0.2 liters per minute. The tubing, probe and subsurface soil was purged of at least one (1) liter of vapor prior to sample collection. Upon completion of the sampling, the polyethylene sheeting was replaced on the floor and secured with duct tape.
- Helium (He) was introduced into the atmosphere under the pail, as a tracer gas, to assure the viability of the vapor point seals with the atmosphere. The tracer gas was monitored in the purge air before sampling and outside of all seals before, during and after sampling, utilizing a Myron Helium Detector. In addition, Helium (He) was analyzed for in the SUMMA[®] canister and if detected at more than ten (10) percent, the sample would be considered invalid and retaken.
- A total of two (2) subsurface vapor samples were collected.
 - One (1) subsurface sample was collected from beneath the auditorium located on the west side of the school building.
 - One (1) subsurface sample was collected from beneath Classroom Number 101 at the south end of the school building.

Section No. 3.3: Indoor Air Sample Collection

The following summarizes the manner in which indoor air samples were collected:

- Sample flow rates conformed to the specifications in the sample collection method (less than 0.2 liters per minute) and were consistent with the hours of operation of the school building. Samples were taken from areas where personnel and occupants would not interfere with the sampling. The samples were collected, utilizing conventional sampling methods, in laboratory clean-certified, 6-liter SUMMA[®] canisters, provided by York through a flow controller pre-set for an eight (8) hour long sample duration. As per the guidance requirements, the samples were collected at a height approximately three (3) feet above the floor to represent a height at which occupants are normally seated.

Section No. 3.3.1: Crawlspace/Basement Air Sample Collection

Please refer to Figure No. 2 - Subsurface, Crawlspace, First Floor and Ambient Sampling Locations for additional details.

- A total of two (2) crawlspace air samples were collected.
 - One (1) air sample was collected from the west side of the crawlspace located beneath the auditorium.
 - One (1) air sample was collected from the south end of the crawlspace beneath Classroom Number 101.

Section No. 3.3.2: 1st Floor Air Sample Collection

Please refer to Figure No. 2 - Subsurface, Crawlspace, First Floor and Ambient Sampling Locations for additional details.

- A total of two (2) first floor air samples were collected.
 - One (1) air sample was collected from within the Auditorium on the west side of the school building.
 - One (1) air sample was collected from within Classroom Number 101 located at the south end of the school building.

Section No. 3.4: Outdoor (Ambient) Air Sample Collection

An outdoor (ambient) air sample was collected simultaneously with subsurface and indoor samples to evaluate the potential influence, if any, of outdoor air on indoor air quality. To obtain a representative sample which meets the data quality objectives, the outdoor air sample was collected in a manner consistent with that for indoor air samples. The sample was collected, utilizing conventional sampling methods, in a laboratory clean-certified, 6-liter SUMMA[®] canister, provided by York equipped with a flow controller pre-set for an eight (8) hour sample duration. As per the guidance requirements, the sample was collected at a height approximately three (3) feet above the floor. Please refer to Figure No. 2 - Subsurface, Crawlspace, First Floor and Ambient Sampling Locations for additional details.

- One (1) outdoor (ambient) air sample was collected.
 - One (1) air sample was collected from outside the east side of the school building adjacent to Classroom Number 112.

Section No. 4.0: Laboratory Analytical Summary

The air samples were collected into laboratory supplied, clean-certified, 6-liter SUMMA[®] canisters, and assigned individual identification numbers. Chain of custody documents were prepared and the samples were then delivered to an independent New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory for analysis.

York Analytical Laboratories, Inc. of Stratford, Connecticut provided laboratory analytical services. Copies of York's NYSDOH certifications are available upon request.

Air samples submitted for laboratory analysis were analyzed for Volatile Organic Compounds (VOCs) utilizing the Environmental Protection Agency Toxic Organics 15 (EPA TO-15) list.

The laboratory analysis results for the air samples collected were reviewed and compared to the 90th percentile as listed in Table C2 EPA 2001: Building assessment and survey evaluation (BASE) database, SUMMA canister method found in NYSDOH's "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006 and all available updates.

The following table summarizes the Air Sample Analytical Results of Detected Compounds:

Table No. 1: Air Sample Analytical Results of Detected Compounds via EPA Method TO-15															
Sample ID York ID Sampling Date Client Matrix	EPA 2001 BASE 90th percentile	North Subsurface 21D0014-01 3/31/2021 Soil Vapor		North Crawl Space 21D0014-02 3/31/2021 Indoor Ambient Air		First Floor Auditorium 21D0014-03 3/31/2021 Indoor Ambient Air		South Subsurface 21D0014-04 3/31/2021 Soil Vapor		South Crawl Space 21D0014-05 3/31/2021 Indoor Ambient Air		Room 101 21D0014-06 3/31/2021 Indoor Ambient Air		Ambient 21D0014-07 3/31/2021 Outdoor Ambient Air	
Compound		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Helium		ND						ND							
Dilution Factor		1.64						1.77							
Volatile Organics, EPA TO15 Full List	µg/m3	µg/m3		µg/m3		µg/m3		µg/m3		µg/m3		µg/m3		µg/m3	
Dilution Factor		3.288		0.945		0.951		3.534		1.776		0.804		0.945	
1,1,1-Trichloroethane	20.6	1.800	U	0.520	U	0.520	U	1.90	U	0.970	U	3.10	D	0.520	U
1,1-Dichloroethylene	1.4	0.330	U	0.0940	U	0.0940	U	0.350	U	0.180	U	0.0800	U	0.110	D
1,2,4-Trimethylbenzene	9.5	1.60	U	0.460	J	0.470	J	1.70	U	0.870	J	1.30	D	0.460	U
1,2-Dichlorotetrafluoroethane	6.8	2.30	U	0.730	D	0.730	D	2.50	U	1.20	U	1.40	D	0.660	U
1,3,5-Trimethylbenzene	3.7	1.60	U	0.460	U	0.470	U	1.70	U	0.870	U	0.550	D	0.460	U
1,3-Butadiene	3	2.20	U	0.630	U	0.630	U	2.30	U	1.20	U	0.530	J	0.630	U
2-Butanone	12	12	D	2.50	D	0.870	D	10	D	1.80	D	1.50	D	0.640	D
2-Hexanone	~	2.70	U	0.770	U	0.780	J	2.90	U	1.50	U	0.660	J	0.770	U
4-Methyl-2-pentanone	6	1.30	D	0.500	D	0.390	U	1.60	D	0.730	U	1.60	D	0.390	U
Acetone	98.9	280	D	9	D	7.60	D	260	D	14	D	13	D	3.20	D
Benzene	9.4	1.30	D	0.300	D	0.330	D	1.80	D	0.850	D	0.460	D	0.300	D
Carbon disulfide	4.2	1.10	D	0.440	D	0.360	D	1.20	D	0.550	U	0.330	D	0.590	D
Carbon tetrachloride	1.3	0.520	U	0.590	D	0.540	D	0.560	U	0.670	D	0.560	D	0.540	D
Chloromethane	3.7	0.680	J	0.700	D	0.690	D	0.730	J	0.770	D	0.700	D	0.620	D
cis-1,2-Dichloroethylene	1.9	1.30	D	0.110	D	0.0940	U	0.350	U	0.180	U	0.0960	D	0.0940	U
Cyclohexane	~	1.10	U	0.330	U	0.330	U	1.20	U	0.610	U	0.610	D	0.330	U
Dichlorodifluoromethane	16.5	2.10	D	2.10	D	2.30	D	2.10	D	2.50	D	2.20	D	2.30	D
Ethyl acetate	5.4	2.40	J	0.680	J	0.690	U	2.50	J	1.30	J	1.10	D	0.680	J
Ethyl Benzene	5.7	1.60	D	0.410	U	0.410	U	1.50	D	0.770	U	0.350	J	0.410	U
Isopropanol	250	9.50	D	5.40	D	2.60	D	8.90	D	15	D	32	D	0.860	D
Methyl Methacrylate	~	1.30	J	0.580	D	0.430	D	1.40	U	1.30	D	0.330	U	0.770	D
Methylene chloride	10	24	D	4.80	D	6.80	D	3.90	D	12	D	2.60	D	7.50	D
n-Heptane	~	1.30	J	0.620	D	0.470	D	2.80	D	3.70	D	24	D	0.390	J
n-Hexane	10.2	4.10	D	0.430	D	0.400	D	4.40	D	0.810	D	2	D	0.400	D
o-Xylene	7.9	1.40	J	0.410	J	0.410	J	1.50	J	0.770	J	0.350	D	0.410	J
p- & m- Xylenes	22.2	2.90	U	0.820	U	0.830	U	3.10	U	1.50	U	0.730	D	0.820	U
p-Ethyltoluene	3.6	1.60	U	0.460	U	0.470	U	1.70	U	0.870	U	0.830	D	0.460	U
Tetrachloroethylene	15.9	4	D	1.40	D	0.770	D	3.60	D	1.20	U	1.30	D	0.770	D
Tetrahydrofuran	~	1.90	U	0.560	J	0.560	J	2.10	U	1	U	0.470	U	0.560	U
Toluene	43	480	D	1.10	D	0.970	D	350	D	3.80	D	29	D	1.10	D
Trichloroethylene	4.2	0.440	U	0.150	D	0.130	U	0.470	U	0.240	U	0.130	D	0.150	D
Trichlorofluoromethane (Freon 11)	18.1	1.80	U	1.20	D	1.20	D	2	U	1.50	D	1.20	D	1.10	D
Vinyl Chloride	1.9	0.420	U	0.120	U	0.120	U	0.450	U	0.230	U	0.100	U	0.120	U
NOTES:															
Any Regulatory Exceedences are color coded by Regulation															
µg/m ³ = parts per billion															
Compounds in Gray are used in Decision Matrices A, B, & C. - See Section 5.0 and Table No. 2 for additional information.															
The State of New York does not have any standards, criteria, or guidance values for concentrations of volatile chemicals in subsurface vapors															
Helium was used as a tracer gas, a detection of over 10% would indicate a breakthrough in the subsurface probe seal.															
ND = Not Detected															
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															
~=this indicates that no regulatory limit has been established for this analyte															

The results of the air sampling from the South Crawl Space indicated a detection of Methylene Chloride at a concentration of $12.0 \mu\text{g}/\text{m}^3$ above the background level presented in the EPA BASE 90th Percentile of $10.0 \mu\text{g}/\text{m}^3$. It should be noted that the crawl space is not considered an occupied space.

The laboratory analysis results for the air samples collected were also reviewed and compared to the Air Guidance Values Derived by the NYSDOH as listed in Table 3.1 in NYSDOH's "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006 and all available updates. The results indicated no detection of the listed compounds above the NYSDOH Air Guidance Values (Table 3.1).

Section No. 5.0: Decision Matrices

Decision matrices are risk management tools developed by the NYSDOH to provide guidance on a cases-by-case basis about actions that should be taken to address current and potential exposures related to soil vapor intrusion. The matrices are intended to be used when evaluating the results from buildings with full slab foundations. Due to the presence of polyethylene sheeting covering the crawlspace sand, the structure was deemed to contain a full slab for the purpose of this investigation.

The NYSDOH has currently developed three (3) matrices to use as tools in making decisions when soil vapor may be entering buildings. JCB implemented the matrices and the following table summarizes the results:

Table No. 2: Volatile Chemicals Utilized in NYSDOH Decision Matrices		
Compound	Soil Vapor/Indoor Air Decision Matrix	Result
1,1,1-Trichloroethane (TCA)	Matrix B	No Further Action
Carbon Tetrachloride	Matrix A	No Further Action
cis 1,2-Dichloroethene	Matrix A	No Further Action
1,1-Dichloroethene	Matrix A	No Further Action
Methylene Chloride	Matrix B	No Further Action when Ambient is factored in
Tetrachloroethene (PCE)	Matrix B	No Further Action
Trichloroethene (TCE)	Matrix A	No Further Action
Vinyl Chloride	Matrix C	No Further Action
Notes: A total of eight (8) chemicals have been assigned to decision matrices by the NYSDOH, May 2017.		

The results of the matrices indicate that "No Further Action" is required for all eight (8) volatile organic chemicals utilized in the NYSDOH Decision Matrices.

The concentrations detected in the indoor air samples are likely due to the daily operations within the building or outdoor sources rather than soil vapor intrusion given the concentrations detected in the subsurface vapor samples.

Section No. 6.0: Quality Assurance and Quality Control (QA/QC) Procedures

- In order to prevent cross-contamination between sampling locations, all re-usable sampling equipment which came into contact with sample materials was decontaminated prior to each use. Equipment used for sample collection was wiped clean, washed in a solution of Alconox and thoroughly rinsed with potable water. New and dedicated polyethylene tubing was used for collection of each subsurface sample. All sampling personnel wore disposable latex, nylon, or nitrile gloves during sampling events. At a minimum, gloves were changed between locations and before each laboratory sample were collected.
- The field sampling team maintained sampling log sheets summarizing the following:
 - Sample identification;
 - Canister ID Number;
 - Regulator ID Number;
 - Date and time of sample collection;
 - Sampling height;
 - Sampling methods and devices;
 - The volume of air sampled;
 - The vacuum of canisters before and after sample collection;
 - Chain of custody protocols and records used to track samples from sampling point to analysis.
- Subsequent to sample collection, the Summa[®] canister was labeled with the sampling location, time, and samplers initials.

Section No. 7.0: Volatile Vapor Intrusion Findings

Based upon the review of the VVI laboratory analysis results all detectable concentrations observed were reported well below published occupational health guidelines. In addition, with the exception of one (1) parameter in the South Crawl Space, all remaining detectable concentrations observed within the occupied spaces of the school building were below their background values as reported in the EPA 2001: Building assessment and survey evaluation (BASE) database, SUMMA canister method 90th Percentile found in NYSDOH's "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006 and all available updates.

- Based upon these findings, no hazardous condition or immediate health concern was identified associated with VVI.

Section No. 8.0: Conclusions

A careful evaluation of the indoor air sampling results compared to the subsurface and ambient results did not reveal the presence of a discernible pattern suggesting that the building could be impacted with VVI.

Section No. 9.0: Recommendations

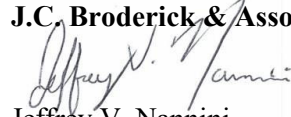
It is recommended that periodic VVI sampling be performed to monitor site conditions.

Section No. 10.0: Certification

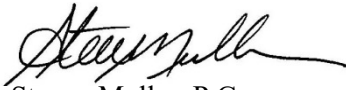
I certify that this Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the New York State Department of Health (NYSDOH) "Guidance for Evaluating Soil Vapor Intrusion in the State of New York", Final Version, October 2006 and all available updates and that all activities were performed in full accordance with the work plan.

Sincerely,

J.C. Broderick & Associates, Inc.



Jeffrey V. Nannini
Environmental Scientist



Steven Muller, P.G.
Project Manager

Appendix A

Figures



J.C. BRODERICK

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500 Broadway
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Drawing Title

Figure No. 1

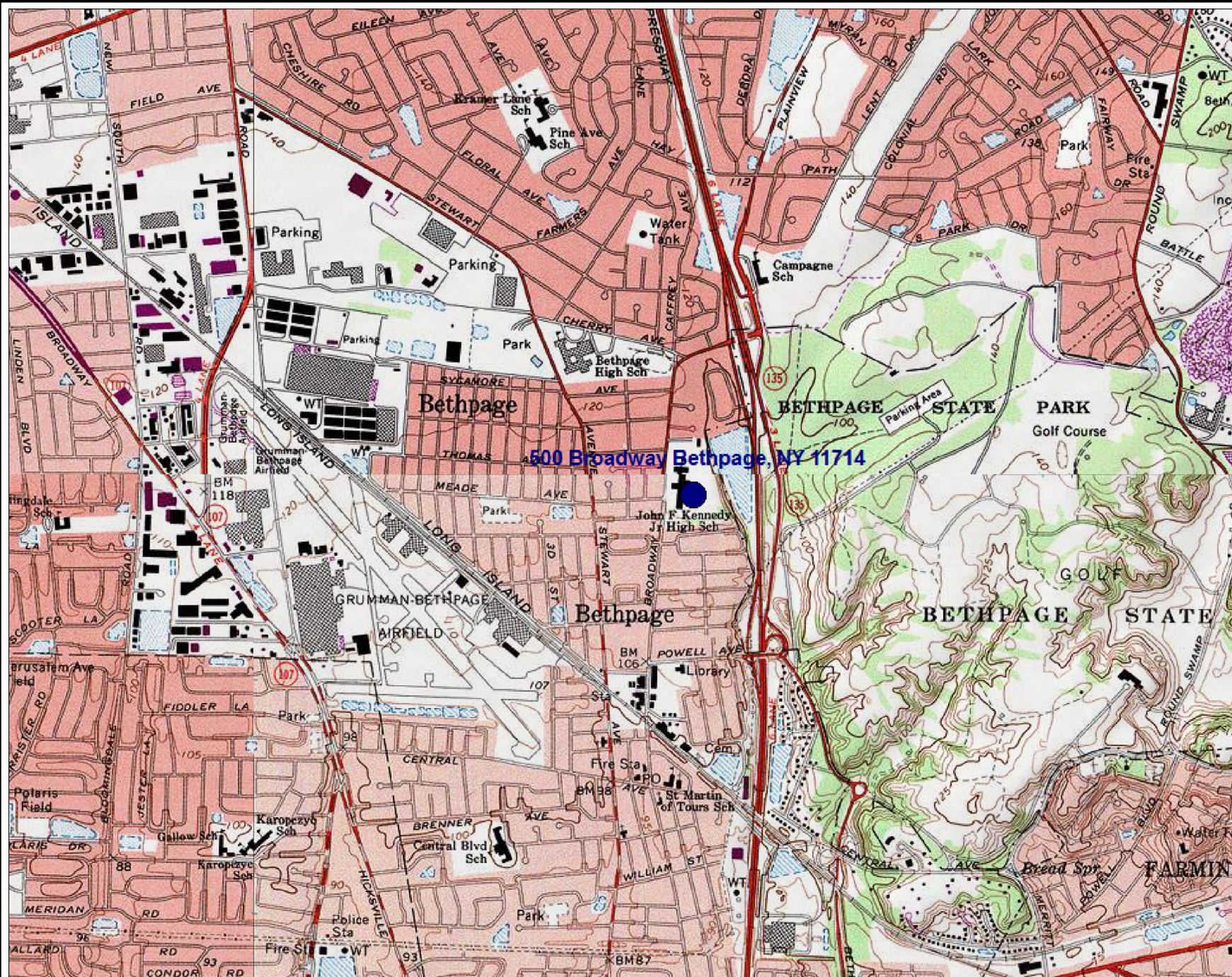
Site Location Map

Scale As Noted Project No. 21-48292 Date 03-31-21

Drawn By J.V.N. Checked By S.W.M. Page No. 1 of 2

Drawing No.

1



JCB LEGEND
● SUBJECT SITE



0 1000 FEET 0 500 1000 METERS
0 5 1 MILE

Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)



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Notes:

John F. Kennedy
Middle School
500 Broadway
Bethpage, NY 11714

Drawing Title

Figure No. 2

Subsurface,
Crawlspace,
First Floor
and Ambient
Sampling
Locations

Scale	Project No.	Date
N.T.S.	21-48292	03-31-21

Drawn By	Checked By	Page No.
J.V.N.	S.W.M.	2 of 2

Drawing No.

2

Broadway

Concrete Walkway

North
Subsurface



North
Crawlspace



First Floor
Auditorium



Grass

Concrete
Walkway

South
Subsurface



South
Crawlspace



Room 101

Ambient



JCB LEGEND

- SUBSURFACE SAMPLING LOCATION
- CRAWLSPACE SAMPLING LOCATION
- FIRST FLOOR SAMPLING LOCATION
- AMBIENT SAMPLING LOCATION

Appendix B

Field Photograph Logs

North Subsurface and North Crawlspace Sampling Locations



Field Photograph Log

Volatile Vapor Intrusion Report

**John F. Kennedy Middle School
500 Broadway Bethpage
Bethpage, New York 11714**

Photo No. 01

JCB#: 21-48292

Auditorium Sampling Location



Field Photograph Log

Volatile Vapor Intrusion Report

John F. Kennedy Middle School
500 Broadway Bethpage
Bethpage, New York 11714

Photo No. 02

JCB#: 21-48292

South Subsurface and South Crawlspace Sampling Locations



Field Photograph Log

Volatile Vapor Intrusion Report

**John F. Kennedy Middle School
500 Broadway Bethpage
Bethpage, New York 11714**

Photo No. 03

JCB#: 21-48292

Room 101 Sample Location



Field Photograph Log

Volatile Vapor Intrusion Report

John F. Kennedy Middle School
500 Broadway Bethpage
Bethpage, New York 11714

Photo No. 04

JCB#: 21-48292

Ambient Sampling Location



Field Photograph Log

Volatile Vapor Intrusion Report

**John F. Kennedy Middle School
500 Broadway Bethpage
Bethpage, New York 11714**

Photo No. 05

JCB#: 21-48292

Typical Subsurface Sampling Equipment and Setup



Field Photograph Log

Volatile Vapor Intrusion Report

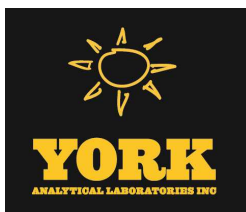
John F. Kennedy Middle School
500 Broadway Bethpage
Bethpage, New York 11714

Photo No. 06

JCB#: 21-48292

Appendix C

Laboratory Analysis Report



Technical Report

prepared for:

J.C. Broderick
1775 North Express Drive
Hauppauge NY, 11788
Attention: Steven Muller

Report Date: 04/08/2021
Client Project ID: 21-48292 JFK MS
York Project (SDG) No.: 21D0014

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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Report Date: 04/08/2021
Client Project ID: 21-48292 JFK MS
York Project (SDG) No.: 21D0014

J.C. Broderick
1775 North Express Drive
Hauppauge NY, 11788
Attention: Steven Muller

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 01, 2021 with a temperature of C. The project was identified as your project: **21-48292 JFK MS**.

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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21D0014-01	North Subsurface	Soil Vapor	03/31/2021	04/01/2021
21D0014-02	North Crawl Space	Indoor Ambient Air	03/31/2021	04/01/2021
21D0014-03	First Floor Auditorium	Indoor Ambient Air	03/31/2021	04/01/2021
21D0014-04	South Subsurface	Soil Vapor	03/31/2021	04/01/2021
21D0014-05	South Crawl Space	Indoor Ambient Air	03/31/2021	04/01/2021
21D0014-06	Room 101	Indoor Ambient Air	03/31/2021	04/01/2021
21D0014-07	Ambient	Outdoor Ambient Ai	03/31/2021	04/01/2021

General Notes for York Project (SDG) No.: 21D0014

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:



Benjamin Gulizia
Laboratory Director

Date: 04/08/2021





Sample Information

Client Sample ID: North Subsurface

York Sample ID: 21D0014-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0014

21-48292 JFK MS

Soil Vapor

March 31, 2021 3:00 pm

04/01/2021

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/m ³	2.3	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	1.8	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	2.3	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	2.5	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	1.8	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	1.3	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.33	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	2.4	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m ³	1.6	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	2.5	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	2.0	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	1.3	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	1.5	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	2.3	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	1.6	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	2.2	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	2.0	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	1.5	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	2.0	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	2.4	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
78-93-3	2-Butanone	12		ug/m ³	0.97	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS



Sample Information

Client Sample ID: North Subsurface

York Sample ID: 21D0014-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0014

21-48292 JFK MS

Soil Vapor

March 31, 2021 3:00 pm

04/01/2021

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
591-78-6	* 2-Hexanone	ND		ug/m ³	2.7	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
107-05-1	3-Chloropropene	ND		ug/m ³	5.1	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
108-10-1	4-Methyl-2-pentanone	1.3		ug/m ³	1.3	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
67-64-1	Acetone	280		ug/m ³	1.6	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.71	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
71-43-2	Benzene	1.3		ug/m ³	1.1	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
100-44-7	Benzyl chloride	ND		ug/m ³	1.7	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	2.2	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
75-25-2	Bromoform	ND		ug/m ³	3.4	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
74-83-9	Bromomethane	ND		ug/m ³	1.3	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
75-15-0	Carbon disulfide	1.1		ug/m ³	1.0	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.52	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
108-90-7	Chlorobenzene	ND		ug/m ³	1.5	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
75-00-3	Chloroethane	ND		ug/m ³	0.87	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
67-66-3	Chloroform	ND		ug/m ³	1.6	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
74-87-3	Chloromethane	ND		ug/m ³	0.68	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
			TO-CC V, TO-LC S-L							
156-59-2	cis-1,2-Dichloroethylene	1.3		ug/m ³	0.33	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	1.5	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
110-82-7	Cyclohexane	ND		ug/m ³	1.1	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	2.8	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS
75-71-8	Dichlorodifluoromethane	2.1		ug/m ³	1.6	3.288	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 10:57	AS



Sample Information

Client Sample ID: North Subsurface

York Sample ID: 21D0014-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0014

21-48292 JFK MS

Soil Vapor

March 31, 2021 3:00 pm

04/01/2021

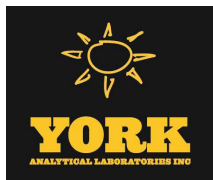
Volatile Organics, EPA TO15 Full List

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
141-78-6	* Ethyl acetate	ND		ug/m ³	2.4	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:			
100-41-4	Ethyl Benzene	1.6		ug/m ³	1.4	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
87-68-3	Hexachlorobutadiene	ND		ug/m ³	3.5	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	Isopropanol	9.5		ug/m ³	1.6	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m ³	1.3	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	1.2	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	Methylene chloride	24		ug/m ³	2.3	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	n-Heptane	ND		ug/m ³	1.3	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	n-Hexane	4.1		ug/m ³	1.2	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	o-Xylene	ND		ug/m ³	1.4	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	p- & m- Xylenes	ND		ug/m ³	2.9	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	* p-Ethyltoluene	ND		ug/m ³	1.6	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:			
115-07-1	* Propylene	ND		ug/m ³	0.57	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:			
100-42-5	Styrene	ND		ug/m ³	1.4	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	Tetrachloroethylene	4.0		ug/m ³	2.2	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m ³	1.9	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:			
108-88-3	Toluene	480		ug/m ³	1.2	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	1.3	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	1.5	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m ³	0.44	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	1.8	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m ³	1.2	3.288	EPA TO-15	04/06/2021 19:00	04/08/2021 10:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		



Sample Information

Client Sample ID: North Subsurface

York Sample ID: 21D0014-01

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Soil Vapor

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

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
593-60-2	Vinyl bromide	ND		ug/m ³	1.4	3.288	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 10:57	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.42	3.288	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 10:57	AS

Helium

Log-in Notes:

Sample Notes:

Sample Prepared by Method: PREP for GASES by GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-59-7	* Helium	ND		%	0.82	1.64	GC/TCD Certifications:	04/08/2021 06:58	04/08/2021 13:55	TP

Sample Information

Client Sample ID: North Crawl Space

York Sample ID: 21D0014-02

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Indoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

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/m ³	0.65	0.945	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 03:33	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.52	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.65	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.72	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.52	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.38	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.094	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.70	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS



Sample Information

Client Sample ID: North Crawl Space

York Sample ID: 21D0014-02

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Indoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

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	ND		ug/m ³	0.46	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.73	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.57	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.38	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.44	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
76-14-2	1,2-Dichlorotetrafluoroethane	0.73	TO-CC V, TO-LC S-H	ug/m ³	0.66	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.46	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	0.63	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.57	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.44	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.57	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	0.68	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
78-93-3	2-Butanone	2.5		ug/m ³	0.28	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	0.77	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
107-05-1	3-Chloropropene	ND		ug/m ³	1.5	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
108-10-1	4-Methyl-2-pentanone	0.50		ug/m ³	0.39	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
67-64-1	Acetone	9.0		ug/m ³	0.45	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.21	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
71-43-2	Benzene	0.30		ug/m ³	0.30	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.49	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	0.63	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS



Sample Information

Client Sample ID: North Crawl Space

York Sample ID: 21D0014-02

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Indoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

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
75-25-2	Bromoform	ND		ug/m ³	0.98	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
74-83-9	Bromomethane	ND		ug/m ³	0.37	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
75-15-0	Carbon disulfide	0.44		ug/m ³	0.29	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
56-23-5	Carbon tetrachloride	0.59		ug/m ³	0.15	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.44	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
75-00-3	Chloroethane	ND		ug/m ³	0.25	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
67-66-3	Chloroform	ND		ug/m ³	0.46	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
74-87-3	Chloromethane	0.70	ICV-E, TO-CC V, TO-LC S-L	ug/m ³	0.20	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
156-59-2	cis-1,2-Dichloroethylene	0.11		ug/m ³	0.094	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.43	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
110-82-7	Cyclohexane	ND		ug/m ³	0.33	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	0.81	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
75-71-8	Dichlorodifluoromethane	2.1		ug/m ³	0.47	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	0.68	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
100-41-4	Ethyl Benzene	ND		ug/m ³	0.41	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.0	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
67-63-0	Isopropanol	5.4		ug/m ³	0.46	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
80-62-6	Methyl Methacrylate	0.58		ug/m ³	0.39	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.34	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
75-09-2	Methylene chloride	4.8		ug/m ³	0.66	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
142-82-5	n-Heptane	0.62		ug/m ³	0.39	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS



Sample Information

Client Sample ID: North Crawl Space

York Sample ID: 21D0014-02

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Indoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

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
110-54-3	n-Hexane	0.43		ug/m ³	0.33	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
95-47-6	o-Xylene	ND		ug/m ³	0.41	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
179601-23-1	p- & m- Xylenes	ND		ug/m ³	0.82	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
622-96-8	* p-Ethyltoluene	ND		ug/m ³	0.46	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
115-07-1	* Propylene	ND		ug/m ³	0.16	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
100-42-5	Styrene	ND		ug/m ³	0.40	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
127-18-4	Tetrachloroethylene	1.4		ug/m ³	0.64	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.56	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
108-88-3	Toluene	1.1		ug/m ³	0.36	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.37	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.43	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
79-01-6	Trichloroethylene	0.15		ug/m ³	0.13	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.2		ug/m ³	0.53	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.33	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.41	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.12	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 03:33	AS

Sample Information

Client Sample ID: First Floor Auditorium

York Sample ID: 21D0014-03

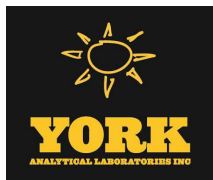
York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Indoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021



Sample Information

Client Sample ID: First Floor Auditorium

York Sample ID: 21D0014-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0014

21-48292 JFK MS

Indoor Ambient Air

March 31, 2021 3:00 pm

04/01/2021

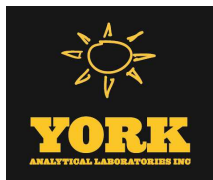
Volatile Organics, EPA TO15 Full List

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/m ³	0.65	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.52	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.65	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.73	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.52	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.38	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.094	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.71	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m ³	0.47	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.73	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.57	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.38	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.44	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
76-14-2	1,2-Dichlorotetrafluoroethane	0.73	TO-CC V, TO-LC S-H	ug/m ³	0.66	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.47	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	0.63	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.57	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.44	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.57	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	0.69	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
78-93-3	2-Butanone	0.87		ug/m ³	0.28	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS



Sample Information

Client Sample ID: First Floor Auditorium

York Sample ID: 21D0014-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0014

21-48292 JFK MS

Indoor Ambient Air

March 31, 2021 3:00 pm

04/01/2021

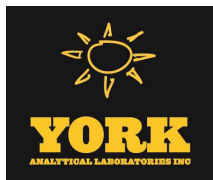
Volatile Organics, EPA TO15 Full List

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
591-78-6	* 2-Hexanone	ND		ug/m ³	0.78	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
107-05-1	3-Chloropropene	ND		ug/m ³	1.5	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.39	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
67-64-1	Acetone	7.6		ug/m ³	0.45	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.21	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
71-43-2	Benzene	0.33		ug/m ³	0.30	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.49	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	0.64	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
75-25-2	Bromoform	ND		ug/m ³	0.98	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
74-83-9	Bromomethane	ND		ug/m ³	0.37	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
75-15-0	Carbon disulfide	0.36		ug/m ³	0.30	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
56-23-5	Carbon tetrachloride	0.54		ug/m ³	0.15	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.44	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
75-00-3	Chloroethane	ND		ug/m ³	0.25	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
67-66-3	Chloroform	ND		ug/m ³	0.46	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
74-87-3	Chloromethane	0.69	ICV-E, TO-CC V, TO-LC S-L	ug/m ³	0.20	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.094	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.43	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
110-82-7	Cyclohexane	ND		ug/m ³	0.33	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	0.81	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
75-71-8	Dichlorodifluoromethane	2.3		ug/m ³	0.47	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS



Sample Information

Client Sample ID: First Floor Auditorium

York Sample ID: 21D0014-03

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Indoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

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
141-78-6	* Ethyl acetate	ND		ug/m ³	0.69	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
100-41-4	Ethyl Benzene	ND		ug/m ³	0.41	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.0	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
67-63-0	Isopropanol	2.6		ug/m ³	0.47	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
80-62-6	Methyl Methacrylate	0.43		ug/m ³	0.39	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.34	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
75-09-2	Methylene chloride	6.8		ug/m ³	0.66	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
142-82-5	n-Heptane	0.47		ug/m ³	0.39	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
110-54-3	n-Hexane	0.40		ug/m ³	0.34	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
95-47-6	o-Xylene	ND		ug/m ³	0.41	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
179601-23-1	p- & m- Xylenes	ND		ug/m ³	0.83	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
622-96-8	* p-Ethyltoluene	ND		ug/m ³	0.47	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
115-07-1	* Propylene	ND		ug/m ³	0.16	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
100-42-5	Styrene	ND		ug/m ³	0.41	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
127-18-4	Tetrachloroethylene	0.77		ug/m ³	0.65	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.56	0.951	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 04:32	AS
108-88-3	Toluene	0.97		ug/m ³	0.36	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.38	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.43	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
79-01-6	Trichloroethylene	ND		ug/m ³	0.13	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.2		ug/m ³	0.53	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.33	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS



Sample Information

Client Sample ID: First Floor Auditorium

York Sample ID: 21D0014-03

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Indoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

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
593-60-2	Vinyl bromide	ND		ug/m ³	0.42	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.12	0.951	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 04:32	AS

Sample Information

Client Sample ID: South Subsurface

York Sample ID: 21D0014-04

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Soil Vapor

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

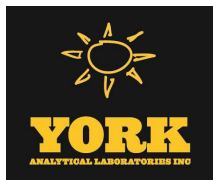
Volatile Organics, EPA TO15 Full List

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/m ³	2.4	3.534	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 11:46	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	1.9	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	2.4	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	2.7	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	1.9	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	1.4	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.35	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	2.6	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m ³	1.7	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	2.7	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	2.1	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	1.4	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	1.6	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS



Sample Information

Client Sample ID: South Subsurface

York Sample ID: 21D0014-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0014

21-48292 JFK MS

Soil Vapor

March 31, 2021 3:00 pm

04/01/2021

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
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	2.5	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	1.7	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	2.3	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	2.1	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	1.6	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	2.1	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	2.5	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
78-93-3	2-Butanone	10		ug/m ³	1.0	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	2.9	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
107-05-1	3-Chloropropene	ND		ug/m ³	5.5	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
108-10-1	4-Methyl-2-pentanone	1.6		ug/m ³	1.4	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
67-64-1	Acetone	260		ug/m ³	1.7	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.77	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
71-43-2	Benzene	1.8		ug/m ³	1.1	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
100-44-7	Benzyl chloride	ND		ug/m ³	1.8	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	2.4	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
75-25-2	Bromoform	ND		ug/m ³	3.7	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
74-83-9	Bromomethane	ND		ug/m ³	1.4	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
75-15-0	Carbon disulfide	1.2		ug/m ³	1.1	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.56	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
108-90-7	Chlorobenzene	ND		ug/m ³	1.6	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
75-00-3	Chloroethane	ND		ug/m ³	0.93	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS



Sample Information

Client Sample ID: South Subsurface

York Sample ID: 21D0014-04

York Project (SDG) No.

21D0014

Client Project ID

21-48292 JFK MS

Matrix

Soil Vapor

Collection Date/Time

March 31, 2021 3:00 pm

Date Received

04/01/2021

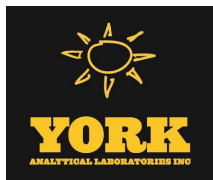
Volatile Organics, EPA TO15 Full List

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
67-66-3	Chloroform	ND		ug/m ³	1.7	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
74-87-3	Chloromethane	ND	TO-CC V, TO-LC S-L	ug/m ³	0.73	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.35	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	1.6	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
110-82-7	Cyclohexane	ND		ug/m ³	1.2	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	3.0	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
75-71-8	Dichlorodifluoromethane	2.1		ug/m ³	1.7	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	2.5	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
100-41-4	Ethyl Benzene	1.5		ug/m ³	1.5	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	3.8	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
67-63-0	Isopropanol	8.9		ug/m ³	1.7	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
80-62-6	Methyl Methacrylate	ND		ug/m ³	1.4	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	1.3	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
75-09-2	Methylene chloride	3.9		ug/m ³	2.5	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
142-82-5	n-Heptane	2.8		ug/m ³	1.4	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
110-54-3	n-Hexane	4.4		ug/m ³	1.2	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
95-47-6	o-Xylene	ND		ug/m ³	1.5	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
179601-23-1	p- & m- Xylenes	ND		ug/m ³	3.1	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
622-96-8	* p-Ethyltoluene	ND		ug/m ³	1.7	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
115-07-1	* Propylene	ND		ug/m ³	0.61	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
100-42-5	Styrene	ND		ug/m ³	1.5	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS



Sample Information

Client Sample ID: South Subsurface

York Sample ID: 21D0014-04

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Soil Vapor

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

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
127-18-4	Tetrachloroethylene	3.6		ug/m ³	2.4	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	2.1	3.534	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 11:46	AS
108-88-3	Toluene	350		ug/m ³	1.3	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	1.4	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	1.6	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
79-01-6	Trichloroethylene	ND		ug/m ³	0.47	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	2.0	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
108-05-4	Vinyl acetate	ND		ug/m ³	1.2	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
593-60-2	Vinyl bromide	ND		ug/m ³	1.5	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.45	3.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 11:46	AS

Helium

Log-in Notes:

Sample Notes:

Sample Prepared by Method: PREP for GASES by GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-59-7	* Helium	ND		%	0.88	1.77	GC/TCID Certifications:	04/08/2021 06:58	04/08/2021 14:03	TP

Sample Information

Client Sample ID: South Crawl Space

York Sample ID: 21D0014-05

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Indoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

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/m ³	1.2	1.776	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 05:31	AS



Sample Information

Client Sample ID: South Crawl Space

York Sample ID: 21D0014-05

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Indoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

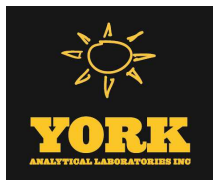
Volatile Organics, EPA TO15 Full List

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/m ³	0.97	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	1.2	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.4	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.97	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.72	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.18	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.3	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m ³	0.87	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.4	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	1.1	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.72	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.82	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	1.2	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.87	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	1.2	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	1.1	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.82	1.776	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 05:31	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	1.1	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	1.3	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
78-93-3	2-Butanone	1.8		ug/m ³	0.52	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	1.5	1.776	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 05:31	AS



Sample Information

Client Sample ID: South Crawl Space

York Sample ID: 21D0014-05

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Indoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

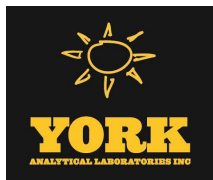
Volatile Organics, EPA TO15 Full List

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/m ³	2.8	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.73	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
67-64-1	Acetone	14		ug/m ³	0.84	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.39	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
71-43-2	Benzene	0.85		ug/m ³	0.57	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.92	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	1.2	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
75-25-2	Bromoform	ND		ug/m ³	1.8	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
74-83-9	Bromomethane	ND		ug/m ³	0.69	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
75-15-0	Carbon disulfide	ND		ug/m ³	0.55	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
56-23-5	Carbon tetrachloride	0.67		ug/m ³	0.28	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.82	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
75-00-3	Chloroethane	ND		ug/m ³	0.47	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
67-66-3	Chloroform	ND		ug/m ³	0.87	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
74-87-3	Chloromethane	0.77	TO-CC V, TO-LC S-L, ICV-E	ug/m ³	0.37	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.18	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.81	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
110-82-7	Cyclohexane	ND		ug/m ³	0.61	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.5	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
75-71-8	Dichlorodifluoromethane	2.5		ug/m ³	0.88	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	1.3	1.776	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 05:31	AS



Sample Information

Client Sample ID: South Crawl Space

York Sample ID: 21D0014-05

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Indoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

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
100-41-4	Ethyl Benzene	ND		ug/m ³	0.77	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.9	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
67-63-0	Isopropanol	15		ug/m ³	0.87	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
80-62-6	Methyl Methacrylate	1.3		ug/m ³	0.73	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.64	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
75-09-2	Methylene chloride	12		ug/m ³	1.2	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
142-82-5	n-Heptane	3.7		ug/m ³	0.73	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
110-54-3	n-Hexane	0.81		ug/m ³	0.63	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
95-47-6	o-Xylene	ND		ug/m ³	0.77	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
179601-23-1	p- & m- Xylenes	ND		ug/m ³	1.5	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
622-96-8	* p-Ethyltoluene	ND		ug/m ³	0.87	1.776	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 05:31	AS
115-07-1	* Propylene	ND		ug/m ³	0.31	1.776	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 05:31	AS
100-42-5	Styrene	ND		ug/m ³	0.76	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
127-18-4	Tetrachloroethylene	ND		ug/m ³	1.2	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	1.0	1.776	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 05:31	AS
108-88-3	Toluene	3.8		ug/m ³	0.67	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.70	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.81	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
79-01-6	Trichloroethylene	ND		ug/m ³	0.24	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.5		ug/m ³	1.0	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.63	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.78	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS



Sample Information

Client Sample ID: South Crawl Space

York Sample ID: 21D0014-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0014

21-48292 JFK MS

Indoor Ambient Air

March 31, 2021 3:00 pm

04/01/2021

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/m ³	0.23	1.776	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 05:31	AS

Sample Information

Client Sample ID: Room 101

York Sample ID: 21D0014-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0014

21-48292 JFK MS

Indoor Ambient Air

March 31, 2021 3:00 pm

04/01/2021

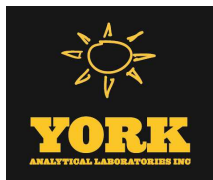
Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	0.55	0.804	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 06:30	AS
71-55-6	1,1,1-Trichloroethane	3.1		ug/m ³	0.44	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.55	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.62	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.44	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.33	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.080	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.60	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
95-63-6	1,2,4-Trimethylbenzene	1.3		ug/m ³	0.40	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.62	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.48	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.33	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.37	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS



Sample Information

Client Sample ID: Room 101

York Sample ID: 21D0014-06

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Indoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

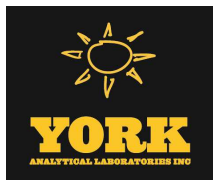
Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-14-2	1,2-Dichlorotetrafluoroethane	1.4	TO-CC V, TO-LC S-H	ug/m ³	0.56	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
108-67-8	1,3,5-Trimethylbenzene	0.55		ug/m ³	0.40	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
106-99-0	1,3-Butadiene	ND	TO-CC V, TO-LC S-L	ug/m ³	0.53	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.48	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.37	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.48	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	0.58	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
78-93-3	2-Butanone	1.5		ug/m ³	0.24	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	0.66	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
107-05-1	3-Chloropropene	ND		ug/m ³	1.3	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
108-10-1	4-Methyl-2-pentanone	1.6		ug/m ³	0.33	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
67-64-1	Acetone	13		ug/m ³	0.38	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.17	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
71-43-2	Benzene	0.46		ug/m ³	0.26	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.42	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	0.54	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
75-25-2	Bromoform	ND		ug/m ³	0.83	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
74-83-9	Bromomethane	ND		ug/m ³	0.31	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
75-15-0	Carbon disulfide	0.33		ug/m ³	0.25	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
56-23-5	Carbon tetrachloride	0.56		ug/m ³	0.13	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS



Sample Information

Client Sample ID: Room 101

York Sample ID: 21D0014-06

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Indoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/m ³	0.37	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
75-00-3	Chloroethane	ND		ug/m ³	0.21	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
67-66-3	Chloroform	ND		ug/m ³	0.39	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
74-87-3	Chloromethane	0.70	TO-CC V, TO-LC S-L, ICV-E	ug/m ³	0.17	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
156-59-2	cis-1,2-Dichloroethylene	0.096		ug/m ³	0.080	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.36	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
110-82-7	Cyclohexane	0.61		ug/m ³	0.28	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	0.68	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
75-71-8	Dichlorodifluoromethane	2.2		ug/m ³	0.40	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
141-78-6	* Ethyl acetate	1.1		ug/m ³	0.58	0.804	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 06:30	AS
100-41-4	Ethyl Benzene	ND		ug/m ³	0.35	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	0.86	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
67-63-0	Isopropanol	32		ug/m ³	0.40	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.33	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.29	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
75-09-2	Methylene chloride	2.6		ug/m ³	0.56	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
142-82-5	n-Heptane	24		ug/m ³	0.33	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
110-54-3	n-Hexane	2.0		ug/m ³	0.28	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
95-47-6	o-Xylene	0.35		ug/m ³	0.35	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
179601-23-1	p- & m- Xylenes	0.73		ug/m ³	0.70	0.804	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 06:30	AS
622-96-8	* p-Ethyltoluene	0.83		ug/m ³	0.40	0.804	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 06:30	AS



Sample Information

Client Sample ID: Room 101

York Sample ID: 21D0014-06

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Indoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
115-07-1	* Propylene	ND		ug/m ³	0.14	0.804	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 06:30	AS
100-42-5	Styrene	ND		ug/m ³	0.34	0.804	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 06:30	AS
127-18-4	Tetrachloroethylene	1.3		ug/m ³	0.55	0.804	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 06:30	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.47	0.804	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 06:30	AS
108-88-3	Toluene	29		ug/m ³	0.30	0.804	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 06:30	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.32	0.804	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 06:30	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.36	0.804	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 06:30	AS
79-01-6	Trichloroethylene	0.13		ug/m ³	0.11	0.804	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 06:30	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.2		ug/m ³	0.45	0.804	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 06:30	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.28	0.804	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 06:30	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.35	0.804	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 06:30	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.10	0.804	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 06:30	AS

Sample Information

Client Sample ID: Ambient

York Sample ID: 21D0014-07

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Outdoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

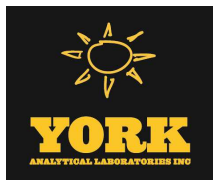
Volatile Organics, EPA TO15 Full List

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/m ³	0.65	0.945	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 07:29	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.52	0.945	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 07:29	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.65	0.945	EPA TO-15 Certifications:	04/06/2021 19:00	04/08/2021 07:29	AS



Sample Information

Client Sample ID: Ambient

York Sample ID: 21D0014-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0014

21-48292 JFK MS

Outdoor Ambient Air

March 31, 2021 3:00 pm

04/01/2021

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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.72	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.52	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.38	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
75-35-4	1,1-Dichloroethylene	0.11		ug/m ³	0.094	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.70	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m ³	0.46	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.73	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.57	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.38	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.44	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.66	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.46	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	0.63	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.57	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.44	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.57	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	0.68	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
78-93-3	2-Butanone	0.64		ug/m ³	0.28	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	0.77	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
107-05-1	3-Chloropropene	ND		ug/m ³	1.5	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.39	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
67-64-1	Acetone	3.2		ug/m ³	0.45	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS



Sample Information

Client Sample ID: Ambient

York Sample ID: 21D0014-07

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Outdoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

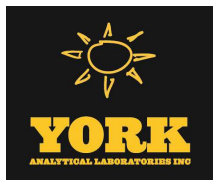
Volatile Organics, EPA TO15 Full List

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
107-13-1	Acrylonitrile	ND		ug/m ³	0.21	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
71-43-2	Benzene	0.30		ug/m ³	0.30	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.49	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	0.63	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
75-25-2	Bromoform	ND		ug/m ³	0.98	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
74-83-9	Bromomethane	ND		ug/m ³	0.37	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
75-15-0	Carbon disulfide	0.59		ug/m ³	0.29	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
56-23-5	Carbon tetrachloride	0.54		ug/m ³	0.15	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.44	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
75-00-3	Chloroethane	ND		ug/m ³	0.25	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
67-66-3	Chloroform	ND		ug/m ³	0.46	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
74-87-3	Chloromethane	0.62	TO-CC V, TO-LC S-L, ICV-E	ug/m ³	0.20	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.094	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.43	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
110-82-7	Cyclohexane	ND		ug/m ³	0.33	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	0.81	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
75-71-8	Dichlorodifluoromethane	2.3		ug/m ³	0.47	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	0.68	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
100-41-4	Ethyl Benzene	ND		ug/m ³	0.41	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.0	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
67-63-0	Isopropanol	0.86		ug/m ³	0.46	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS



Sample Information

Client Sample ID: Ambient

York Sample ID: 21D0014-07

York Project (SDG) No.
21D0014

Client Project ID
21-48292 JFK MS

Matrix
Outdoor Ambient Air

Collection Date/Time
March 31, 2021 3:00 pm

Date Received
04/01/2021

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	0.77		ug/m ³	0.39	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.34	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
75-09-2	Methylene chloride	7.5		ug/m ³	0.66	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
142-82-5	n-Heptane	ND		ug/m ³	0.39	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
110-54-3	n-Hexane	0.40		ug/m ³	0.33	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
95-47-6	o-Xylene	ND		ug/m ³	0.41	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
179601-23-1	p- & m- Xylenes	ND		ug/m ³	0.82	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
622-96-8	* p-Ethyltoluene	ND		ug/m ³	0.46	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
115-07-1	* Propylene	ND		ug/m ³	0.16	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
100-42-5	Styrene	ND		ug/m ³	0.40	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
127-18-4	Tetrachloroethylene	0.77		ug/m ³	0.64	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.56	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
108-88-3	Toluene	1.1		ug/m ³	0.36	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.37	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.43	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
79-01-6	Trichloroethylene	0.15		ug/m ³	0.13	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.1		ug/m ³	0.53	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.33	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.41	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.12	0.945	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2021 19:00	04/08/2021 07:29	AS





Sample and Data Qualifiers Relating to This Work Order

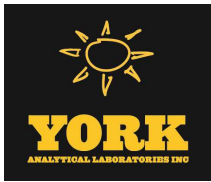
TO-VAC	The final vacuum in the canister was less than -2 inches Hg vacuum. The time integrated sampling may be affected and not reflect proper sampling over the time period. The data user should take note.
TO-LCS-L	The result reported for this compound may be biased low due to its behavior in the analysis batch LCS where it recovered less 70% of the expected value.
TO-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-CCV	The value reported is ESTIMATED for this compound due to its behavior during continuing calibration verification (>30% Difference from initial calibration).
ICV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).

Definitions and Other Explanations

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

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

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



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

Certification for pH is no longer offered by NYDOH ELAP.

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

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



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YORK Project No.
210 0014

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. signature binds you to YORK's Standard Terms & Conditions.

Your Page 1 of 1

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: JCBRODOWICZ & ASSOC Address: 1775 EXPRESSWAY DR. N. HAUPPAUGE, NY 11788 Phone: 631-584-5492 Contact: SMULLER E-mail: smuller@jcbrodowicz.com		Company: JCB Address: Phone.: Contact: E-mail: 		Company: JCB Address: Phone.: Contact: E-mail: 		21-48292		RUSH - Next Day RUSH - Two Day RUSH - Three Day RUSH - Four Day Standard (5-7 Day) X	
						YOUR Project Name JFK MS			
						YOUR PO#:			
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.		Air Matrix Codes		Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.	
		AI - Indoor Ambient Air AO - Outdoor Amb. Air AE - Vapor Extraction Well/ Process Gas/Effluent AS - Soil Vapor/Sub-Slab		New York X New Jersey Connecticut Pennsylvania Other	Summary Report QA Report NY ASP A Package NY ASP B Package Other:	CT RCP CT RCP DQA/DUE NJDEP Reduced Deliv. NJDQKP	Standard Excel EDD EQulS (Standard) NYSDEC EQulS NJDEP SRP HazSite	Compared to the following Regulation(s): (please fill in)	
Samples Collected by: (print your name above and sign below) Steve Mullen									
Certified Canisters: Batch _____ Individual _____		Please enter the following REQUIRED Field Data					Reporting Units: ug/m³ X 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		
NORTH SUBSURFACE	3/31/21	AS	29	5	36703	2705	TO-15 + He		
NORTH CRAWL SPACE	3/31/21	AI	30	8	28842	6874	TO-15		
FIRST FLOOR AUDITORIUM	3/31/21	AI	27	5	37805	5609	TO-15		
SOUTH SUBSURFACE	3/31/21	AS	30	6.5	24128	13560	TO-15 + He		
SOUTH CRAWL SPACE	3/31/21	AI	30	17	28836	6880	TO-15		
Room 101	3/31/21	AI	30	6	16144	6862	TO-15		
AMBIENT	3/31/21	AO	28	6.5	28306	5611	TO-15		
Comments: SOUTH CRAWL SPACE - TECH TURNED OFF TOO SOON.					Detection Limits Required			Sampling Media	
					≤ 1 ug/m³ X NYSDEC V1 Limits _____ Routine Survey _____ Other _____			6 Liter Canister X Tedlar Bag	
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time				
JCB	4-1-21 11:00 AM	K. Salyards	4-1-21 11:00 AM	K. Salyards	4/1/21 15:36				
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time				
J. Gale	4/1/2021 15:36	J. Gale / YORK	4-1-21 / 1941	E. L. Jr.	4/1/21 1941				
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time				
E. L. Jr.	4/1/21 20:05				4/2/21 10:05				