

# **VOLATILE VAPOR INTRUSION (VVI) REPORT**

**CHARLES CAMPAGNE ELEMENTARY SCHOOL  
601 PLAINVIEW ROAD  
BETHPAGE, NEW YORK 11714**

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

**JCB PROJECT #: 18-39196  
MARCH 2018**

**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) at the Charles Campagne Elementary School campus. 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 601 Plainview Road Bethpage, New York 11714. The Subject Site is located on the east side of Plainview Road between Evelyn Drive to the north and Broadway to the south. According to the United States Geological Survey (USGS) *Huntington, New York, 1979 7.5 Minute Series Topographical Map*, the Subject Site is situated at an approximate elevation of 120 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 design scope outlined in the Volatile Vapor Intrusion (VVI) Investigation Work Plan (IWP) dated July 2012 prepared for the Bethpage High School was followed during the volatile vapor intrusion evaluations. The following sections describe the procedures taken.

### **Section No. 3.1: Pre-Work Field Preparations**

Prior to setup, 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 - Sub-slab, 1<sup>st</sup> Floor, 2<sup>nd</sup> Floor and Ambient Sampling Locations for additional details.

- For the collection of the sub-slab vapor samples, a probe was fabricated from ½-inch diameter, threaded brass pipe with a barbed tubing connection. Using a hammer drill, a 1-inch hole was drilled into the concrete floor at least two inches below the base of the slab (three to four inches thick). 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 concrete floor and above the vapor point. The container was sealed to the concrete floor with modeling clay. 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 the start of sample collection. Upon completion of the sampling, the probe was removed from the concrete slab and the hole patched with concrete.
- 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.
- On February 22, 2018, a total of two (2) sub-slab vapor samples were collected.
  - One (1) sub-slab sample was collected from beneath the elevator mechanical room floor located at the north end of the school building.
  - One (1) sub-slab sample was collected from beneath the boiler room floor located 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 equipped with 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: 1<sup>st</sup> Floor Air Sample Collection**

Please refer to Figure No. 2 - Sub-slab, 1<sup>st</sup> Floor, 2<sup>nd</sup> Floor and Ambient Sampling Locations for additional details.

- On February 22, 2018, a total of five (5) first floor air samples were collected.
  - One (1) air sample was collected from within the elevator mechanical room located at the north end of the school building.
  - One (1) air sample was collected from within Classroom K-C located at the north end of the school building.
  - One (1) air sample was collected from within Classroom 103 located in the main hallway of the school building.
  - One (1) air sample was collected from within the west Music Office located at the south end of the school building.
  - One (1) air sample was collected from within the boiler room located at the south end of the school building.

### **Section No. 3.3.2: 2<sup>nd</sup> Floor Air Sample Collection**

Please refer to Figure No. 2 - Sub-slab, 1<sup>st</sup> Floor, 2<sup>nd</sup> Floor and Ambient Sampling Locations for additional details.

- On February 22, 2018, one (1) 2<sup>nd</sup> floor air sample was collected.
  - One (1) air sample was collected from within Classroom 207 located in the main hallway 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 - Sub-slab, 1<sup>st</sup> Floor, 2<sup>nd</sup> Floor and Ambient Sampling Locations for additional details.

- On February 22, 2018, 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 107.

#### 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. 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 90<sup>th</sup> percentile as listed in Table C1 NYSDOH 2003 Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes of the NYSDOH's "Final NYSDOH CEH BEEI Soil Vapor Intrusion Guidance" dated October 2006 and all available updates.

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

**Table No. 1:  
Volatile Vapor Intrusion Analytical Results via EPA Method TO-15**

Client Sample ID	Background Values	Ambient	SS-1 <sup>1</sup> Mech Rm	FF-1 Mech Rm	FF-2 Rm KC	FF-3 Rm 103	FF-4 Music	FF-5 Rm 207	SS-2 <sup>1</sup> Boiler	FF-6 Boiler
TO-15 List	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
1,1,1-Trichloroethane (TCE)	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	9.5	ND	7.7	0.60	2.9	0.37	1.1	0.81	ND	0.29
1,3,5-Trimethylbenzene	3.6	ND	ND	ND	0.60	ND	ND	ND	ND	ND
1,2-Dichloroethane	< 0.25	ND	ND	ND	ND	ND	0.22	ND	ND	ND
4-Methyl-2-pentanone	NA	ND	6.4	ND	0.33	ND	0.76	ND	13	ND
Acetone	110	1.4	90	6.4	10	2.6	7.1	12	300	2.2
Benzene	15	0.29	ND	0.43	1.1	0.27	0.48	0.41	13	0.39
Methyl Ethyl Ketone (2-Butanone)	16	0.30	19	2.6	2.2	0.49	3.7	7.9	55	0.46
Carbon Tetrachloride	0.81	0.27	5.3	0.30	0.37	0.27	0.37	0.37	ND	0.30
Carbon Disulfide	NA	ND	ND	0.28	0.60	ND	ND	ND	ND	ND
Chloromethane	3.3	0.57	ND	0.58	0.77	0.52	0.75	0.72	ND	0.56
Chloroform	1.4	ND	ND	ND	ND	ND	ND	ND	16	ND
cis 1,2-Dichloroethene	<0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	<0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	8.1	ND	ND	ND	0.35	ND	0.42	ND	ND	ND
Dichlorodifluoromethane (Freon 12)	15	1.0	ND	1.4	2.3	0.92	1.4	1.3	ND	1.1
Ethyl Acetate	NA	ND	ND	0.54	2.2	ND	1.2	ND	ND	ND
Ethylbenzene	7.3	ND	71	0.44	1.7	ND	0.56	0.25	8.7	0.23
Isopropanol	NA	ND	ND	3.8	1.8	2.9	4.5	8.1	8.0	0.68
Methyl Methacrylate	0.45	ND	ND	ND	ND	ND	ND	ND	8.2	ND
Methylene Chloride	22	1.8	ND	12	4.1	3.0	8.2	4.7	17	1.2
n-Heptane	19	ND	ND	0.24	0.81	ND	0.46	0.26	7.6	ND
n-Hexane	18	ND	ND	0.28	1.2	ND	0.34	0.23	18	0.28
o-Xylene	7.6	ND	24	0.51	2.2	ND	0.58	0.28	ND	0.28

**Table No. 1:**  
**Volatile Vapor Intrusion Analytical Results via EPA Method TO-15**

Client Sample ID	Background Values	Ambient	SS-1 <sup>1</sup> Mech Rm	FF-1 Mech Rm	FF-2 Rm KC	FF-3 Rm 103	FF-4 Music	FF-5 Rm 207	SS-2 <sup>1</sup> Boiler	FF-6 Boiler
TO-15 List	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
p- & m- Xylene	12	ND	90	1.6	6.7	0.46	1.6	0.79	ND	0.81
p-Ethyltoluene	NA	ND	7.7	0.63	2.2	ND	0.50	0.29	ND	0.29
Propylene	NA	0.17	ND	0.29	0.54	0.20	0.31	0.29	5.6	0.24
Styrene	1.3	ND	ND	ND	0.43	ND	0.64	ND	ND	ND
Tetrachloroethene (PCE)	2.9	0.33	7.4	0.51	0.65	0.33	0.43	0.33	8.4	0.43
Tetrahydrofuran	3.3	ND	35	0.49	0.96	ND	0.57	0.79	140	ND
Toluene	58	0.38	1600	2.2	5.9	0.74	2.6	2.5	950	1.2
Trichloroethene (TCE)	0.45	ND	ND	ND	0.086	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)	17	0.69	ND	0.84	1.5	0.60	1.6	0.93	ND	0.69
1,2,2-Trifluoroethane (Freon 113)	NA	ND	ND	ND	2.9	ND	ND	0.41	ND	ND
Vinyl Chloride	<0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND
Helium	NA	NT	ND	NT	NT	NT	NT	NT	ND	NT

**Notes:**  
 µg/m<sup>3</sup> = parts per billion  
 NA = Background Value Not Established  
 ND=Not Detected above the laboratory minimum detection limit  
 Background Values = NYSDOH 2003 Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes 90<sup>th</sup> Percentile  
<sup>1</sup> The State of New York does not have any standards, criteria, or guidance values for concentrations of volatile chemicals in subsurface vapors  
 Compounds in gray are used in Decision Matrices A, B, & C. - See Table No. 2 for additional information.  
 Helium was used as a tracer gas, a detection of over 10% would indicate a breakthrough in the subsurface probe seal.

### **Section No. 5.0: Decision Matrices**

Decision matrices are risk management tools developed by the NYSDOH to provide guidance on a case-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.

The NYSDOH has currently developed eight (8) 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	Identify Source(s) and Resample or Mitigate
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 7 of 8 volatile organic chemicals utilized in the NYSDOH Decision Matrices. However, the results of the matrices also recommend to “identify source(s) and resample or mitigate for methylene chloride in the elevator mechanical room. It should be noted that the elevator mechanical room is not considered an occupied space.

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 sample.

#### **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: 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, all detectable concentrations observed in the occupied spaces of the school building were below their background values as reported in the NYSDOH 2003 Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes 90<sup>th</sup> Percentile.

It should be noted that the NYSDOH Decision Matrix for methylene chloride to identify source(s) and resample or mitigate was located in the elevator mechanical room and is not considered an occupied space.

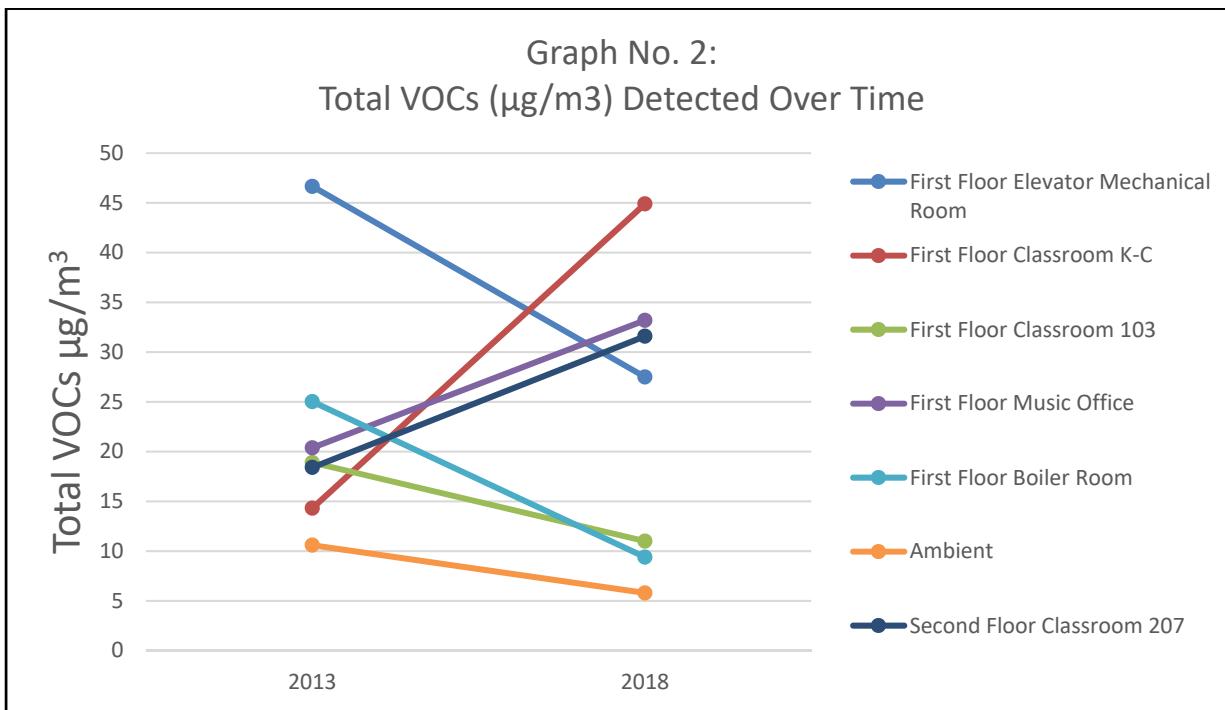
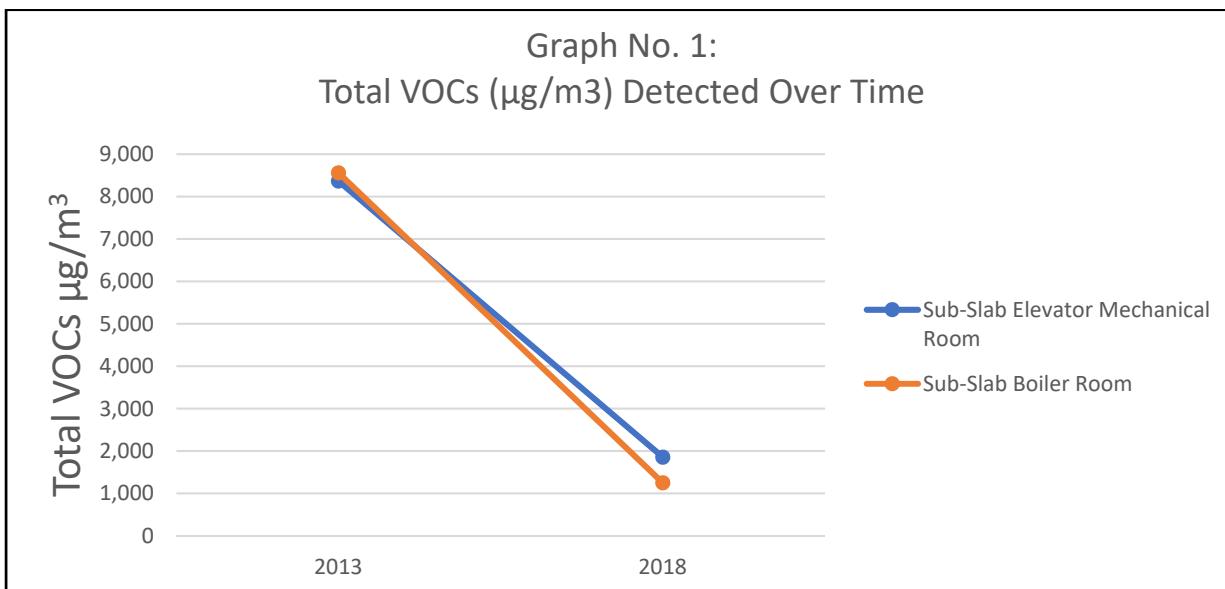
Based upon these findings, no hazardous condition or immediate health concern was identified associated with VVI.

### **Section No. 7.1: Previous Analytical Results Trend Analysis**

JCB performed the same volatile vapor intrusion sampling in 2013. The 2018 analytical results for total VOCs were compared to the previous sampling results and are presented in Table No.3.

Table No. 3: Total VOCs ( $\mu\text{g}/\text{m}^3$ ) Detected Over Time			
Sample Number	Location	Year	
		2013	2018
SS-1	Sub-Slab Elevator Mechanical Room	8,364	1,854
FF-1	First Floor Elevator Mechanical Room	46.8	27.5
FF-2	First Floor Classroom K-C	14	45
FF-3	First Floor Classroom 103	18.9	11
FF-4	First Floor Music Office	20.4	33.2
FF-5	Second Floor Classroom 207	18.4	31.6
SS-2	Sub-Slab Boiler Room	8,558	1,247
FF-6	First Floor Boiler Room	25	9.4
Ambient	Ambient	10.6	5.8

In general, the concentration of total VOCs has decreased in the sub-slab samples as indicated in Graph No. 1 below. In addition, the interior spaces also indicate a general downward trend in detected VOC concentration since 2013 with four (4) of the seven (7) sampling locations indicating lower concentrations as shown in Graph No. 2 below.



### **Section No. 8.0: Conclusions**

A careful evaluation of the indoor air sampling results compared to the subsurface and ambient results did reveal the presence of a discernible pattern suggesting that the building could be impacted with VVI. It appears that the building concrete slab is relatively effective in preventing the subsurface volatile vapors from migrating into the occupied portions of the school building.

### **Section No. 9.0: Recommendations**

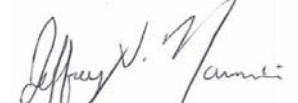
It is recommended that periodic VVI sampling be performed to monitor site conditions.

It is also recommended that an investigation be performed to identify any possible sources of methylene chloride associated with building's boiler room and elevator mechanical room. Steps should be taken to reduce the presence of volatile organic compounds by keeping containers tightly capped or storing VOC containing products in ventilated areas.

### **Section No. 9.0: 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 that all activities were performed in full accordance with the work plan.

Sincerely,  
**J.C. Broderick & Associates, Inc.**



Jeffrey V. Nannini  
Environmental Scientist

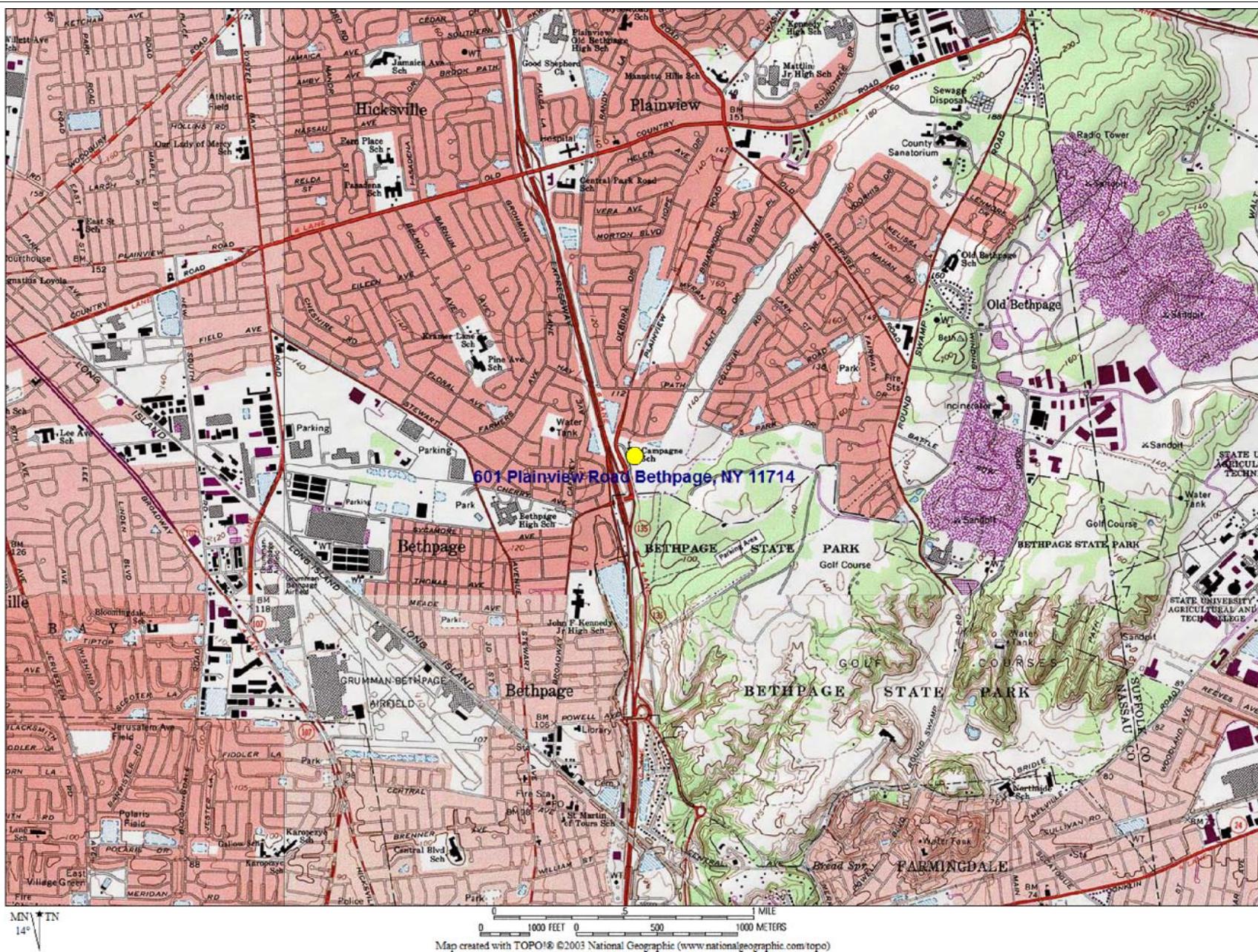


Steven Muller, P.G. (LA)  
Project Manager

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## **Appendix A**

## **Figures**



**JCB LEGEND**  
■ SUBJECT SITE



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Drawing Title

Figure No. 1

Site Location Map

Scale	Project No.	Date
As Noted	18-39196	03-07-18

Drawn By	Checked By	Page No.
M.C	S.W.M.	1 of 2

Drawing No.



FF-2  
First Floor  
Classroom K-C

FF-1  
First Floor  
Sub-Slab  
Elevator  
Mechanical Room

Ambient  
Gazebo

FF-5  
Second Floor  
Classroom 207

Grass

Plainview Road

Grass

Driveway

Sidewalk

Sidewalk

Sidewalk

Grass

Sidewalk

Asphalt  
Basketball Court

SS-2  
Sub-Slab First Floor  
Boiler Room

FF-6  
First Floor  
Music Office

### JCB LEGEND

- AMBIENT SAMPLING LOCATION
- SUBSURFACE SAMPLING LOCATION
- FIRST FLOOR SAMPLING LOCATION
- SECOND FLOOR SAMPLING LOCATION

# JCB

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Notes:

Charles Campagne  
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601 Plainview Road  
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#### Drawing Title

Figure No. 2

Sub-Slab,  
1st Floor  
and  
2nd Floor  
Sampling  
Locations

Scale Project No. Date  
N.T.S. 18-39196 03-07-18

Drawn By Checked By Page No.  
M.C. S.W.M. 2 of 2

#### Drawing No.

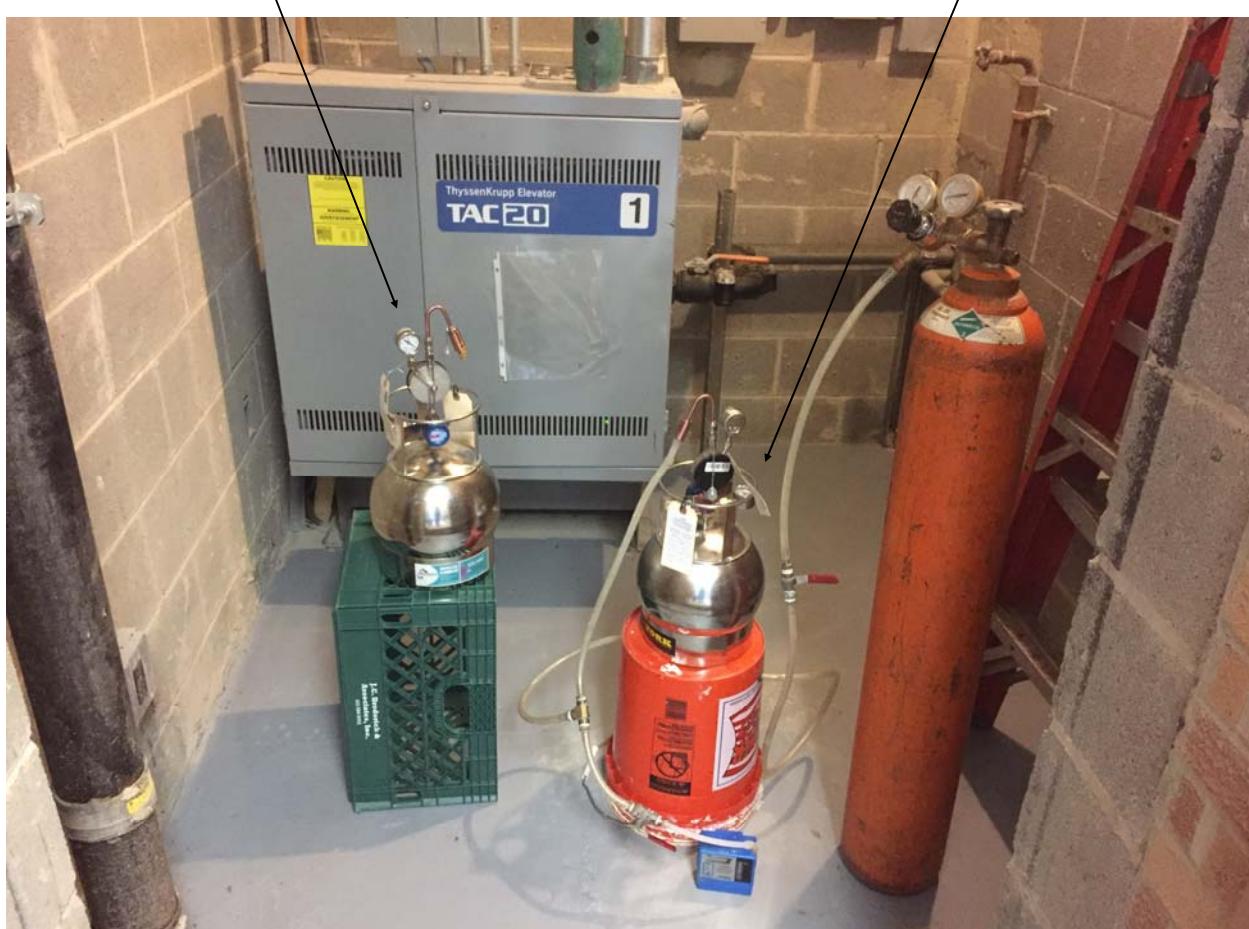
2

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## **Appendix B**

### **Field Photograph Logs**

**Sampling Locations**  
**FF-1 Mechanical Room & SS-1 Mechanical Room Sub-Slab**



**Field Photograph Log**

**Volatile Vapor Intrusion Report**

**Charles Campagne Elementary School  
601 Plainview Road  
Bethpage, New York 11714**



**Photo No. 01**

**JCB#: 18-39196**

**Sampling Locations**  
**SS-2 Boiler Room Sub-Slab & FF-6 Boiler Room**



**Field Photograph Log**

**Volatile Vapor Intrusion Report**

**Charles Campagne Elementary School  
601 Plainview Road  
Bethpage, New York 11714**



**Photo No. 02**

**JCB#: 18-39196**

**Sampling Location  
FF-2 Classroom K-C**



**Field Photograph Log**

**Volatile Vapor Intrusion Report**

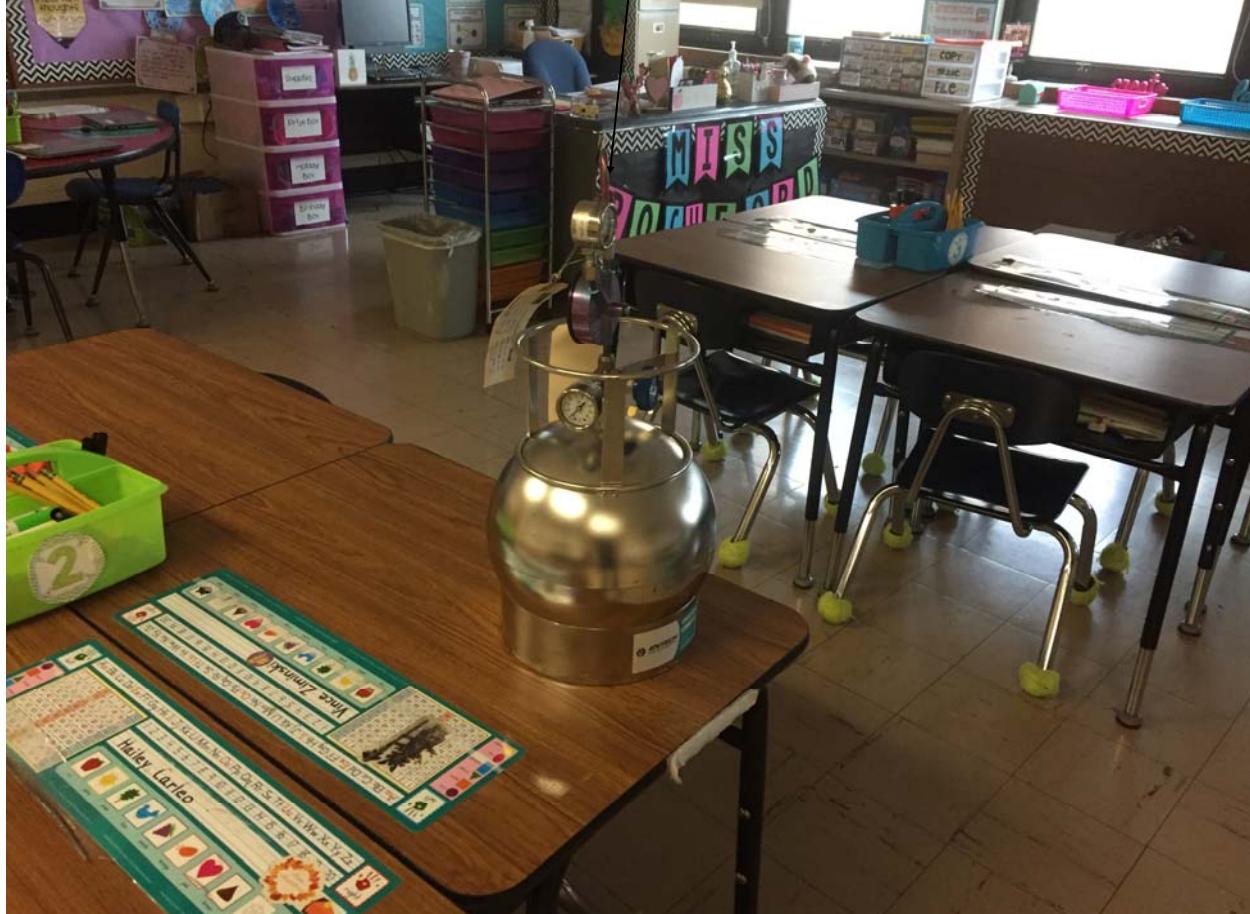
**Charles Campagne Elementary School  
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**Photo No. 03**

**JCB#: 18-39196**

**Sampling Location  
FF-3 Classroom 103**



**Field Photograph Log**

**Volatile Vapor Intrusion Report**

**Charles Campagne Elementary School  
601 Plainview Road  
Bethpage, New York 11714**



**Photo No. 04**

**JCB#: 18-39196**

**Sampling Location  
FF-4 Music Office**



**Field Photograph Log**

**Volatile Vapor Intrusion Report**

**Charles Campagne Elementary School  
601 Plainview Road  
Bethpage, New York 11714**

**Photo No. 05**

**JCB#: 18-39196**

**Sampling Location  
FF-5 Classroom 207**



**Field Photograph Log**

**Volatile Vapor Intrusion Report**

**Charles Campagne Elementary School  
601 Plainview Road  
Bethpage, New York 11714**



**Photo No. 06**

**JCB#:18-39196**

## Ambient Sample Location



## Field Photograph Log

Volatile Vapor Intrusion Report

Charles Campagne Elementary School  
601 Plainview Road  
Bethpage, New York 11714



Photo No. 07

JCB#: 18-39196

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## **Appendix C**

# **Laboratory Analysis Report**



# Technical Report

prepared for:

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

Report Date: 03/02/2018  
**Client Project ID: 18-39196**  
York Project (SDG) No.: 18B0922

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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120 RESEARCH DRIVE  
[www.YORKLAB.com](http://www.YORKLAB.com)

STRATFORD, CT 06615  
(203) 325-1371



132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 03/02/2018  
Client Project ID: 18-39196  
York Project (SDG) No.: 18B0922

**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 February 23, 2018 and listed below. The project was identified as your project: **18-39196**.

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.

<b>York Sample ID</b>	<b>Client Sample ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
18B0922-01	SS-1 Mech Rm	Soil Vapor	02/22/2018	02/23/2018
18B0922-02	FF-1 Mech Rm	Indoor Ambient Air	02/22/2018	02/23/2018
18B0922-03	SS-2 Boiler Rm	Soil Vapor	02/22/2018	02/23/2018
18B0922-04	FF-6 Boiler Rm	Indoor Ambient Air	02/22/2018	02/23/2018
18B0922-05	FF-2 Rm K-C	Indoor Ambient Air	02/22/2018	02/23/2018
18B0922-06	FF-3 Rm 103	Indoor Ambient Air	02/22/2018	02/23/2018
18B0922-07	FF-4 Music Rm	Indoor Ambient Air	02/22/2018	02/23/2018
18B0922-08	FF-5 Rm 207	Indoor Ambient Air	02/22/2018	02/23/2018
18B0922-09	Ambient	Outdoor Ambient Ai	02/22/2018	02/23/2018

## **General Notes for York Project (SDG) No.: 18B0922**

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

**Approved By:**



**Date:** 03/02/2018

Benjamin Gulizia  
Laboratory Director





## Sample Information

**Client Sample ID:** SS-1 Mech Rm

**York Sample ID:** 18B0922-01

York Project (SDG) No.  
18B0922

Client Project ID  
18-39196

Matrix  
Soil Vapor

Collection Date/Time  
February 22, 2018 3:00 pm

Date Received  
02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

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	IS-LO	ug/m³	11	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	8.5	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	ug/m³	11	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	12	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	8.5	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	6.3	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	1.5	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	ug/m³	12	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>7.7</b>	IS-LO	ug/m³	7.7	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	12	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/m³	9.4	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	6.3	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	7.2	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	11	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/m³	7.7	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	10	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/m³	9.4	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	7.2	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/m³	9.4	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	11	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
78-93-3	<b>2-Butanone</b>	<b>19</b>		ug/m³	4.6	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
NELAC-NY12058,NJDEP-Queens										



## Sample Information

Client Sample ID: SS-1 Mech Rm

York Sample ID: 18B0922-01

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Soil Vapor

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### 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/m³	13	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
107-05-1	3-Chloropropene	ND		ug/m³	24	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>6.4</b>		ug/m³	6.4	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
67-64-1	<b>Acetone</b>	<b>90</b>		ug/m³	7.4	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
107-13-1	Acrylonitrile	ND		ug/m³	3.4	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
71-43-2	Benzene	ND		ug/m³	5.0	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
100-44-7	Benzyl chloride	ND	IS-LO	ug/m³	8.1	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	10	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
75-25-2	Bromoform	ND	IS-LO	ug/m³	16	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
74-83-9	Bromomethane	ND		ug/m³	6.0	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
75-15-0	<b>Carbon disulfide</b>	<b>5.3</b>		ug/m³	4.9	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	2.5	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
108-90-7	Chlorobenzene	ND	IS-LO	ug/m³	7.2	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
75-00-3	Chloroethane	ND		ug/m³	4.1	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
67-66-3	Chloroform	ND		ug/m³	7.6	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
74-87-3	Chloromethane	ND		ug/m³	3.2	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	1.5	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	7.1	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
110-82-7	Cyclohexane	ND		ug/m³	5.4	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	13	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m³	7.7	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	11	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS



## Sample Information

Client Sample ID: SS-1 Mech Rm

York Sample ID: 18B0922-01

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Soil Vapor

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### 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	71	IS-LO	ug/m³	6.8	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
87-68-3	Hexachlorobutadiene	ND	IS-LO	ug/m³	17	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
67-63-0	Isopropanol	ND		ug/m³	7.7	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	6.4	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	5.6	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
75-09-2	Methylene chloride	ND		ug/m³	11	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
142-82-5	n-Heptane	ND		ug/m³	6.4	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
110-54-3	n-Hexane	ND		ug/m³	5.5	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
95-47-6	o-Xylene	24	IS-LO	ug/m³	6.8	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
179601-23-1	p- & m- Xylenes	90	IS-LO	ug/m³	14	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
622-96-8	* p-Ethyltoluene	7.7	IS-LO	ug/m³	7.7	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
115-07-1	* Propylene	ND		ug/m³	2.7	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
100-42-5	Styrene	ND	IS-LO	ug/m³	6.6	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
127-18-4	Tetrachloroethylene	7.4		ug/m³	2.6	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
109-99-9	* Tetrahydrofuran	35		ug/m³	9.2	15.58	EPA TO-15 Certifications:	02/28/2018 02:15	02/28/2018 02:15	LDS
108-88-3	Toluene	1600		ug/m³	5.9	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	6.2	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	7.1	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
79-01-6	Trichloroethylene	ND		ug/m³	2.1	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	8.8	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
108-05-4	Vinyl acetate	ND		ug/m³	5.5	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
593-60-2	Vinyl bromide	ND		ug/m³	6.8	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS



## Sample Information

Client Sample ID: SS-1 Mech Rm

York Sample ID: 18B0922-01

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Soil Vapor

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	1.0	15.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 02:15	02/28/2018 02:15	LDS
<b>Surrogate Recoveries</b>										
Surrogate: <i>p</i> -Bromofluorobenzene										
460-00-4		134 %	S-04		70-130					

### 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		%	0.78	1.558	GC/TCD Certifications:	02/28/2018 17:31	02/28/2018 18:00	LDS

## Sample Information

Client Sample ID: FF-1 Mech Rm

York Sample ID: 18B0922-02

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications:	02/28/2018 03:24	02/28/2018 03:24	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.40	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS



## Sample Information

Client Sample ID: FF-1 Mech Rm

York Sample ID: 18B0922-02

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### 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	0.60		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.35	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications:	02/28/2018 03:24	02/28/2018 03:24	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
78-93-3	2-Butanone	2.6		ug/m³	0.16	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	0.44	0.533	EPA TO-15 Certifications:	02/28/2018 03:24	02/28/2018 03:24	LDS
107-05-1	3-Chloropropene	ND		ug/m³	0.83	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
67-64-1	Acetone	6.4		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.12	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
71-43-2	Benzene	0.43		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.28	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.36	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
75-25-2	Bromoform	ND		ug/m³	0.55	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS



## Sample Information

Client Sample ID:	FF-1 Mech Rm	York Sample ID:	18B0922-02	
York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18B0922	18-39196	Indoor Ambient Air	February 22, 2018 3:00 pm	02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
75-15-0	<b>Carbon disulfide</b>	<b>0.28</b>		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
56-23-5	<b>Carbon tetrachloride</b>	<b>0.30</b>		ug/m³	0.084	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
75-00-3	Chloroethane	ND		ug/m³	0.14	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
67-66-3	Chloroform	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
74-87-3	<b>Chloromethane</b>	<b>0.58</b>		ug/m³	0.11	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.18	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.45	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>1.4</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
141-78-6	* <b>Ethyl acetate</b>	<b>0.54</b>		ug/m³	0.38	0.533	EPA TO-15 Certifications:	02/28/2018 03:24	02/28/2018 03:24	LDS
100-41-4	<b>Ethyl Benzene</b>	<b>0.44</b>		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.57	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
67-63-0	<b>Isopropanol</b>	<b>3.8</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
75-09-2	<b>Methylene chloride</b>	<b>12</b>		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
142-82-5	<b>n-Heptane</b>	<b>0.24</b>		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
110-54-3	<b>n-Hexane</b>	<b>0.28</b>		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
95-47-6	<b>o-Xylene</b>	<b>0.51</b>		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS



## Sample Information

Client Sample ID: FF-1 Mech Rm

York Sample ID: 18B0922-02

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	1.6		ug/m³	0.46	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
622-96-8	* p-Ethyltoluene	0.63		ug/m³	0.26	0.533	EPA TO-15 Certifications:	02/28/2018 03:24	02/28/2018 03:24	LDS
115-07-1	* Propylene	0.29		ug/m³	0.092	0.533	EPA TO-15 Certifications:	02/28/2018 03:24	02/28/2018 03:24	LDS
100-42-5	Styrene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
127-18-4	Tetrachloroethylene	0.51		ug/m³	0.090	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
109-99-9	* Tetrahydrofuran	0.49		ug/m³	0.31	0.533	EPA TO-15 Certifications:	02/28/2018 03:24	02/28/2018 03:24	LDS
108-88-3	Toluene	2.2		ug/m³	0.20	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.072	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	0.84		ug/m³	0.30	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.034	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 03:24	02/28/2018 03:24	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
460-00-4	Surrogate: p-Bromofluorobenzene	120 %			70-130					

## Sample Information

Client Sample ID: SS-2 Boiler Rm

York Sample ID: 18B0922-03

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Soil Vapor

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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## Sample Information

Client Sample ID: SS-2 Boiler Rm

York Sample ID: 18B0922-03

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Soil Vapor

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### 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	IS-LO	ug/m³	11	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	8.4	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	ug/m³	11	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	12	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	8.4	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	6.3	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	1.5	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	ug/m³	11	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/m³	7.6	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	12	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/m³	9.3	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	6.3	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	7.1	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
76-14-2	1,2-Dichlortetrafluoroethane	ND		ug/m³	11	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/m³	7.6	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	10	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/m³	9.3	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	7.1	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/m³	9.3	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	11	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
78-93-3	<b>2-Butanone</b>	<b>55</b>		ug/m³	4.6	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS



## Sample Information

Client Sample ID: SS-2 Boiler Rm

York Sample ID: 18B0922-03

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Soil Vapor

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m³	13	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
107-05-1	3-Chloropropene	ND		ug/m³	24	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>13</b>		ug/m³	6.3	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
67-64-1	<b>Acetone</b>	<b>300</b>		ug/m³	7.3	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
107-13-1	Acrylonitrile	ND		ug/m³	3.4	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
71-43-2	<b>Benzene</b>	<b>13</b>		ug/m³	4.9	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
100-44-7	Benzyl chloride	ND	IS-LO	ug/m³	8.0	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	10	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
75-25-2	Bromoform	ND	IS-LO	ug/m³	16	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
74-83-9	Bromomethane	ND		ug/m³	6.0	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
75-15-0	Carbon disulfide	ND		ug/m³	4.8	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	2.4	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
108-90-7	Chlorobenzene	ND	IS-LO	ug/m³	7.1	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
75-00-3	Chloroethane	ND		ug/m³	4.1	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
67-66-3	<b>Chloroform</b>	<b>16</b>		ug/m³	7.5	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
74-87-3	Chloromethane	ND		ug/m³	3.2	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	1.5	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	7.0	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
110-82-7	Cyclohexane	ND		ug/m³	5.3	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	13	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m³	7.6	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	11	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS



## Sample Information

Client Sample ID: SS-2 Boiler Rm

York Sample ID: 18B0922-03

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Soil Vapor

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### 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	8.7	IS-LO	ug/m³	6.7	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
87-68-3	Hexachlorobutadiene	ND	IS-LO	ug/m³	16	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
67-63-0	Isopropanol	8.0		ug/m³	7.6	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
80-62-6	Methyl Methacrylate	8.2		ug/m³	6.3	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	5.6	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
75-09-2	Methylene chloride	17		ug/m³	11	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
142-82-5	n-Heptane	7.6		ug/m³	6.3	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
110-54-3	n-Hexane	18		ug/m³	5.4	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
95-47-6	o-Xylene	ND	IS-LO	ug/m³	6.7	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
179601-23-1	p- & m- Xylenes	ND	IS-LO	ug/m³	13	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
622-96-8	* p-Ethyltoluene	ND	IS-LO	ug/m³	7.6	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
115-07-1	* Propylene	5.6		ug/m³	2.7	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
100-42-5	Styrene	ND	IS-LO	ug/m³	6.6	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
127-18-4	Tetrachloroethylene	8.4		ug/m³	2.6	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
109-99-9	* Tetrahydrofuran	140		ug/m³	9.1	15.46	EPA TO-15 Certifications:	02/28/2018 04:25	02/28/2018 04:25	LDS
108-88-3	Toluene	950		ug/m³	5.8	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	6.1	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	7.0	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
79-01-6	Trichloroethylene	ND		ug/m³	2.1	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	8.7	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
108-05-4	Vinyl acetate	ND		ug/m³	5.4	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
593-60-2	Vinyl bromide	ND		ug/m³	6.8	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS



## Sample Information

Client Sample ID: SS-2 Boiler Rm

York Sample ID: 18B0922-03

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Soil Vapor

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.99	15.46	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 04:25	02/28/2018 04:25	LDS
<b>Surrogate Recoveries</b>										
Surrogate: <i>p</i> -Bromofluorobenzene										
460-00-4		139 %	S-04		70-130					

### 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		%	0.77	1.546	GC/TCD Certifications:	02/28/2018 17:31	02/28/2018 18:03	LDS

## Sample Information

Client Sample ID: FF-6 Boiler Rm

York Sample ID: 18B0922-04

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications:	02/28/2018 05:34	02/28/2018 05:34	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.40	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS



## Sample Information

Client Sample ID: FF-6 Boiler Rm

York Sample ID: 18B0922-04

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### 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	0.29		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.35	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications:	02/28/2018 05:34	02/28/2018 05:34	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
78-93-3	2-Butanone	0.46		ug/m³	0.16	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	0.44	0.533	EPA TO-15 Certifications:	02/28/2018 05:34	02/28/2018 05:34	LDS
107-05-1	3-Chloropropene	ND		ug/m³	0.83	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
67-64-1	Acetone	2.2		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.12	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
71-43-2	Benzene	0.39		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.28	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.36	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
75-25-2	Bromoform	ND		ug/m³	0.55	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS



## Sample Information

<u>Client Sample ID:</u> FF-6 Boiler Rm	<u>York Sample ID:</u> 18B0922-04			
<u>York Project (SDG) No.</u> 18B0922	<u>Client Project ID</u> 18-39196	<u>Matrix</u> Indoor Ambient Air	<u>Collection Date/Time</u> February 22, 2018 3:00 pm	<u>Date Received</u> 02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
56-23-5	<b>Carbon tetrachloride</b>	<b>0.30</b>		ug/m³	0.084	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
75-00-3	Chloroethane	ND		ug/m³	0.14	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
67-66-3	Chloroform	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
74-87-3	<b>Chloromethane</b>	<b>0.56</b>		ug/m³	0.11	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.18	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.45	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>1.1</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications:	02/28/2018 05:34	02/28/2018 05:34	LDS
100-41-4	<b>Ethyl Benzene</b>	<b>0.23</b>		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.57	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
67-63-0	<b>Isopropanol</b>	<b>0.68</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
75-09-2	<b>Methylene chloride</b>	<b>1.2</b>		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
142-82-5	n-Heptane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
110-54-3	<b>n-Hexane</b>	<b>0.28</b>		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
95-47-6	<b>o-Xylene</b>	<b>0.28</b>		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS



## Sample Information

Client Sample ID: FF-6 Boiler Rm

York Sample ID: 18B0922-04

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	0.81		ug/m³	0.46	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
622-96-8	* p-Ethyltoluene	0.29		ug/m³	0.26	0.533	EPA TO-15 Certifications:	02/28/2018 05:34	02/28/2018 05:34	LDS
115-07-1	* Propylene	0.24		ug/m³	0.092	0.533	EPA TO-15 Certifications:	02/28/2018 05:34	02/28/2018 05:34	LDS
100-42-5	Styrene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
127-18-4	Tetrachloroethylene	0.43		ug/m³	0.090	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.31	0.533	EPA TO-15 Certifications:	02/28/2018 05:34	02/28/2018 05:34	LDS
108-88-3	Toluene	1.2		ug/m³	0.20	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.072	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	0.69		ug/m³	0.30	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.034	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 05:34	02/28/2018 05:34	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
460-00-4	Surrogate: p-Bromofluorobenzene	121 %			70-130					

## Sample Information

Client Sample ID: FF-2 Rm K-C

York Sample ID: 18B0922-05

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120 RESEARCH DRIVE	STRATFORD, CT 06615		■		132-02 89th AVENUE			RICHMOND HILL, NY 11418		
www.YORKLAB.com	(203) 325-1371				FAX (203) 357-0166			ClientServices@yorklab.com		



## Sample Information

Client Sample ID: FF-2 Rm K-C

York Sample ID: 18B0922-05

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications:	02/28/2018 06:44	02/28/2018 06:44	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
76-13-1	<b>1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)</b>	<b>0.41</b>		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.40	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>2.9</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
76-14-2	1,2-Dichlortetrafluoroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>0.60</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.35	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications:	02/28/2018 06:44	02/28/2018 06:44	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
78-93-3	<b>2-Butanone</b>	<b>2.2</b>		ug/m³	0.16	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	0.44	0.533	EPA TO-15 Certifications:	02/28/2018 06:44	02/28/2018 06:44	LDS



## Sample Information

<b>Client Sample ID:</b> FF-2 Rm K-C		<b>York Sample ID:</b> 18B0922-05
<u>York Project (SDG) No.</u> 18B0922	<u>Client Project ID</u> 18-39196	<u>Matrix</u> Indoor Ambient Air <u>Collection Date/Time</u> February 22, 2018 3:00 pm <u>Date Received</u> 02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	0.83	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>0.33</b>		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
67-64-1	<b>Acetone</b>	<b>10</b>		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.12	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
71-43-2	<b>Benzene</b>	<b>1.1</b>		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.28	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.36	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
75-25-2	Bromoform	ND		ug/m³	0.55	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
74-83-9	Bromomethane	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
75-15-0	<b>Carbon disulfide</b>	<b>0.60</b>		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
56-23-5	<b>Carbon tetrachloride</b>	<b>0.37</b>		ug/m³	0.084	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
75-00-3	Chloroethane	ND		ug/m³	0.14	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
67-66-3	Chloroform	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
74-87-3	<b>Chloromethane</b>	<b>0.77</b>		ug/m³	0.11	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
110-82-7	<b>Cyclohexane</b>	<b>0.35</b>		ug/m³	0.18	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.45	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>2.3</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
141-78-6	* <b>Ethyl acetate</b>	<b>2.2</b>		ug/m³	0.38	0.533	EPA TO-15 Certifications:	02/28/2018 06:44	02/28/2018 06:44	LDS
100-41-4	<b>Ethyl Benzene</b>	<b>1.7</b>		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS



## Sample Information

Client Sample ID: FF-2 Rm K-C

York Sample ID: 18B0922-05

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.57	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
67-63-0	<b>Isopropanol</b>	<b>1.8</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
75-09-2	<b>Methylene chloride</b>	<b>4.1</b>		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
142-82-5	<b>n-Heptane</b>	<b>0.81</b>		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
110-54-3	<b>n-Hexane</b>	<b>1.2</b>		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
95-47-6	<b>o-Xylene</b>	<b>2.2</b>		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>6.7</b>		ug/m³	0.46	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
622-96-8	* <b>p-Ethyltoluene</b>	<b>2.2</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications:	02/28/2018 06:44	02/28/2018 06:44	LDS
115-07-1	* <b>Propylene</b>	<b>0.54</b>		ug/m³	0.092	0.533	EPA TO-15 Certifications:	02/28/2018 06:44	02/28/2018 06:44	LDS
100-42-5	<b>Styrene</b>	<b>0.43</b>		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>0.65</b>		ug/m³	0.090	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
109-99-9	* <b>Tetrahydrofuran</b>	<b>0.96</b>		ug/m³	0.31	0.533	EPA TO-15 Certifications:	02/28/2018 06:44	02/28/2018 06:44	LDS
108-88-3	<b>Toluene</b>	<b>5.9</b>		ug/m³	0.20	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
79-01-6	<b>Trichloroethylene</b>	<b>0.086</b>		ug/m³	0.072	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>1.5</b>		ug/m³	0.30	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.034	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 06:44	02/28/2018 06:44	LDS

#### Surrogate Recoveries

#### Result

#### Acceptance Range



## Sample Information

Client Sample ID: FF-2 Rm K-C

York Sample ID: 18B0922-05

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### 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
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	124 %			70-130					

## Sample Information

Client Sample ID: FF-3 Rm 103

York Sample ID: 18B0922-06

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.40	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>0.37</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS



## Sample Information

Client Sample ID: FF-3 Rm 103

York Sample ID: 18B0922-06

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.35	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
78-93-3	<b>2-Butanone</b>	<b>0.49</b>		ug/m³	0.16	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	0.44	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
107-05-1	3-Chloropropene	ND		ug/m³	0.83	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
67-64-1	<b>Acetone</b>	<b>2.6</b>		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.12	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
71-43-2	<b>Benzene</b>	<b>0.27</b>		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.28	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.36	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
75-25-2	Bromoform	ND		ug/m³	0.55	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
74-83-9	Bromomethane	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
56-23-5	<b>Carbon tetrachloride</b>	<b>0.27</b>		ug/m³	0.084	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
75-00-3	Chloroethane	ND		ug/m³	0.14	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
67-66-3	Chloroform	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS



## Sample Information

Client Sample ID: FF-3 Rm 103

York Sample ID: 18B0922-06

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	<b>0.52</b>		ug/m³	0.11	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.18	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.45	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
75-71-8	Dichlorodifluoromethane	<b>0.92</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
100-41-4	Ethyl Benzene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.57	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
67-63-0	Isopropanol	<b>2.9</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
75-09-2	Methylene chloride	<b>3.0</b>		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
142-82-5	n-Heptane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
110-54-3	n-Hexane	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
95-47-6	o-Xylene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
179601-23-1	p- & m- Xylenes	<b>0.46</b>		ug/m³	0.46	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
115-07-1	* Propylene	<b>0.20</b>		ug/m³	0.092	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS
100-42-5	Styrene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
127-18-4	Tetrachloroethylene	<b>0.33</b>		ug/m³	0.090	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.31	0.533	EPA TO-15 Certifications:	02/28/2018 07:53	02/28/2018 07:53	LDS



## Sample Information

Client Sample ID: FF-3 Rm 103

York Sample ID: 18B0922-06

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst		
108-88-3	Toluene	0.74		ug/m³	0.20	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS		
79-01-6	Trichloroethylene	ND		ug/m³	0.072	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS		
75-69-4	Trichlorofluoromethane (Freon 11)	0.60		ug/m³	0.30	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS		
108-05-4	Vinyl acetate	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS		
593-60-2	Vinyl bromide	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS		
75-01-4	Vinyl Chloride	ND		ug/m³	0.034	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 07:53	02/28/2018 07:53	LDS		
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>									
460-00-4	Surrogate: p-Bromofluorobenzene	118 %			70-130							

## Sample Information

Client Sample ID: FF-4 Music Rm

York Sample ID: 18B0922-07

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications:	02/28/2018 09:02	02/28/2018 09:02	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS



## Sample Information

Client Sample ID: FF-4 Music Rm

York Sample ID: 18B0922-07

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### 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
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.40	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>1.1</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
107-06-2	<b>1,2-Dichloroethane</b>	<b>0.22</b>		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.35	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications:	02/28/2018 09:02	02/28/2018 09:02	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
78-93-3	<b>2-Butanone</b>	<b>3.7</b>		ug/m³	0.16	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	0.44	0.533	EPA TO-15 Certifications:	02/28/2018 09:02	02/28/2018 09:02	LDS
107-05-1	3-Chloropropene	ND		ug/m³	0.83	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>0.76</b>		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
67-64-1	<b>Acetone</b>	<b>7.1</b>		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.12	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
71-43-2	<b>Benzene</b>	<b>0.48</b>		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.28	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS



## Sample Information

Client Sample ID: FF-4 Music Rm

York Sample ID: 18B0922-07

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/m³	0.36	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
75-25-2	Bromoform	ND		ug/m³	0.55	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
74-83-9	Bromomethane	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
56-23-5	<b>Carbon tetrachloride</b>	<b>0.37</b>		ug/m³	0.084	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
75-00-3	Chloroethane	ND		ug/m³	0.14	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
67-66-3	Chloroform	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
74-87-3	<b>Chloromethane</b>	<b>0.75</b>		ug/m³	0.11	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
110-82-7	<b>Cyclohexane</b>	<b>0.42</b>		ug/m³	0.18	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.45	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>1.4</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
141-78-6	* Ethyl acetate	1.2		ug/m³	0.38	0.533	EPA TO-15 Certifications:	02/28/2018 09:02	02/28/2018 09:02	LDS
100-41-4	<b>Ethyl Benzene</b>	<b>0.56</b>		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.57	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
67-63-0	<b>Isopropanol</b>	<b>4.5</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
75-09-2	<b>Methylene chloride</b>	<b>8.2</b>		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
142-82-5	<b>n-Heptane</b>	<b>0.46</b>		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS



## Sample Information

Client Sample ID: FF-4 Music Rm

York Sample ID: 18B0922-07

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-54-3	n-Hexane	0.34		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
95-47-6	o-Xylene	0.58		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
179601-23-1	p- & m- Xylenes	1.6		ug/m³	0.46	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
622-96-8	* p-Ethyltoluene	0.50		ug/m³	0.26	0.533	EPA TO-15 Certifications:	02/28/2018 09:02	02/28/2018 09:02	LDS
115-07-1	* Propylene	0.31		ug/m³	0.092	0.533	EPA TO-15 Certifications:	02/28/2018 09:02	02/28/2018 09:02	LDS
100-42-5	Styrene	0.64		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
127-18-4	Tetrachloroethylene	0.43		ug/m³	0.090	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
109-99-9	* Tetrahydrofuran	0.57		ug/m³	0.31	0.533	EPA TO-15 Certifications:	02/28/2018 09:02	02/28/2018 09:02	LDS
108-88-3	Toluene	2.6		ug/m³	0.20	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.072	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	1.6		ug/m³	0.30	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.034	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 09:02	02/28/2018 09:02	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
460-00-4	Surrogate: p-Bromofluorobenzene	122 %	70-130							

## Sample Information

Client Sample ID: FF-5 Rm 207

York Sample ID: 18B0922-08

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018



## Sample Information

Client Sample ID: FF-5 Rm 207

York Sample ID: 18B0922-08

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications:	02/28/2018 10:12	02/28/2018 10:12	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
76-13-1	<b>1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)</b>	<b>0.41</b>		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.40	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>0.81</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.35	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications:	02/28/2018 10:12	02/28/2018 10:12	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
78-93-3	<b>2-Butanone</b>	<b>7.9</b>		ug/m³	0.16	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	0.44	0.533	EPA TO-15 Certifications:	02/28/2018 10:12	02/28/2018 10:12	LDS



## Sample Information

Client Sample ID: FF-5 Rm 207

York Sample ID: 18B0922-08

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	0.83	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
67-64-1	<b>Acetone</b>	<b>12</b>		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.12	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
71-43-2	<b>Benzene</b>	<b>0.41</b>		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.28	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.36	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
75-25-2	Bromoform	ND		ug/m³	0.55	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
74-83-9	Bromomethane	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
56-23-5	<b>Carbon tetrachloride</b>	<b>0.37</b>		ug/m³	0.084	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
75-00-3	Chloroethane	ND		ug/m³	0.14	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
67-66-3	Chloroform	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
74-87-3	<b>Chloromethane</b>	<b>0.72</b>		ug/m³	0.11	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.18	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.45	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>1.3</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications:	02/28/2018 10:12	02/28/2018 10:12	LDS
100-41-4	<b>Ethyl Benzene</b>	<b>0.25</b>		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS



## Sample Information

Client Sample ID: FF-5 Rm 207

York Sample ID: 18B0922-08

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

Sample Prepared by Method: EPA TO15 PREP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.57	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
67-63-0	<b>Isopropanol</b>	<b>8.1</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
75-09-2	<b>Methylene chloride</b>	<b>4.7</b>		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
142-82-5	<b>n-Heptane</b>	<b>0.26</b>		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
110-54-3	<b>n-Hexane</b>	<b>0.23</b>		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
95-47-6	<b>o-Xylene</b>	<b>0.28</b>		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>0.79</b>		ug/m³	0.46	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
622-96-8	* <b>p-Ethyltoluene</b>	<b>0.29</b>		ug/m³	0.26	0.533	EPA TO-15 Certifications:	02/28/2018 10:12	02/28/2018 10:12	LDS
115-07-1	* <b>Propylene</b>	<b>0.29</b>		ug/m³	0.092	0.533	EPA TO-15 Certifications:	02/28/2018 10:12	02/28/2018 10:12	LDS
100-42-5	Styrene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>0.33</b>		ug/m³	0.090	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
109-99-9	* <b>Tetrahydrofuran</b>	<b>0.79</b>		ug/m³	0.31	0.533	EPA TO-15 Certifications:	02/28/2018 10:12	02/28/2018 10:12	LDS
108-88-3	<b>Toluene</b>	<b>2.5</b>		ug/m³	0.20	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.072	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>0.93</b>		ug/m³	0.30	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.034	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 10:12	02/28/2018 10:12	LDS

#### Surrogate Recoveries

#### Result

#### Acceptance Range

120 RESEARCH DRIVE

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STRATFORD, CT 06615

(203) 325-1371

■

132-02 89th AVENUE

FAX (203) 357-0166

RICHMOND HILL, NY 11418

ClientServices@yorklab.com



## Sample Information

Client Sample ID: FF-5 Rm 207

York Sample ID: 18B0922-08

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Indoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### 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
460-00-4	Surrogate: p-Bromofluorobenzene	118 %			70-130					

## Sample Information

Client Sample ID: Ambient

York Sample ID: 18B0922-09

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Outdoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.29	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.40	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.41	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.37	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS



## Sample Information

Client Sample ID: Ambient

York Sample ID: 18B0922-09

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Outdoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.35	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.32	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
78-93-3	<b>2-Butanone</b>	<b>0.30</b>		ug/m³	0.16	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	0.44	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
107-05-1	3-Chloropropene	ND		ug/m³	0.83	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
67-64-1	<b>Acetone</b>	<b>1.4</b>		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.12	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
71-43-2	<b>Benzene</b>	<b>0.29</b>		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.28	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.36	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
75-25-2	Bromoform	ND		ug/m³	0.55	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
74-83-9	Bromomethane	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.17	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
56-23-5	<b>Carbon tetrachloride</b>	<b>0.27</b>		ug/m³	0.084	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.25	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
75-00-3	Chloroethane	ND		ug/m³	0.14	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
67-66-3	Chloroform	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS



## Sample Information

Client Sample ID: Ambient

York Sample ID: 18B0922-09

York Project (SDG) No.

18B0922

Client Project ID

18-39196

Matrix

Outdoor Ambient Air

Collection Date/Time

February 22, 2018 3:00 pm

Date Received

02/23/2018

### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	0.57		ug/m³	0.11	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.053	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.18	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.45	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
75-71-8	Dichlorodifluoromethane	1.0		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	0.38	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
100-41-4	Ethyl Benzene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.57	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
67-63-0	Isopropanol	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
75-09-2	Methylene chloride	1.8		ug/m³	0.37	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
142-82-5	n-Heptane	ND		ug/m³	0.22	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
110-54-3	n-Hexane	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
95-47-6	o-Xylene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.46	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.26	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
115-07-1	* Propylene	0.17		ug/m³	0.092	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS
100-42-5	Styrene	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
127-18-4	Tetrachloroethylene	0.33		ug/m³	0.090	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.31	0.533	EPA TO-15 Certifications:	02/28/2018 11:21	02/28/2018 11:21	LDS



## Sample Information

<u>Client Sample ID:</u> Ambient		<u>York Sample ID:</u> <b>18B0922-09</b>
<u>York Project (SDG) No.</u> 18B0922	<u>Client Project ID</u> 18-39196	<u>Matrix</u> Outdoor Ambient Air <u>Collection Date/Time</u> February 22, 2018 3:00 pm <u>Date Received</u> 02/23/2018

### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	<b>0.38</b>		ug/m³	0.20	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.21	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.24	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.072	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	<b>0.69</b>		ug/m³	0.30	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.19	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.23	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.034	0.533	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/28/2018 11:21	02/28/2018 11:21	LDS
Surrogate Recoveries		Result	Acceptance Range							
460-00-4	Surrogate: p-Bromofluorobenzene	118 %	70-130							





## Sample and Data Qualifiers Relating to This Work Order

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
- IS-LO The internal std associated with this target compound did not meet acceptance criteria (area <50% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
- CCV-A The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to dectected analytes only.

### Definitions and Other Explanations

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

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.



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

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

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**YORK**  
ANALYTICAL LABORATORIES INC.

# Field Chain-of-Custody Record - AIR

Page \_\_\_\_ of \_\_\_\_

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.  
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 18B0922

<b>YOUR Information</b>		<b>Report To:</b>	<b>Invoice To:</b>	<b>YOUR Project ID</b>	<b>Turn-Around Time</b>	<b>Report Type/Deliverables</b>
Company: <u>JCBRODENICK'S ASSOC</u>	Company: <u>JCB</u>	Company: <u>JCB</u>		<u>18-39196</u>	RUSH - Same Day <input type="checkbox"/>	Summary Report <input checked="" type="checkbox"/>
Address: <u>TRANS EXPRESS DR .N</u> <u>Hempstead, NY 11520</u>	Address: _____	Address: _____			RUSH - Next Day <input type="checkbox"/>	Summary w/ QA Summary <input type="checkbox"/>
Phone No. <u>516-584-5492</u>	Phone No. _____	Phone No. _____			RUSH - Two Day <input type="checkbox"/>	CT RCP Package <input type="checkbox"/>
Contact Person: <u>S. MULLER</u>	Attention: _____	Attention: _____			RUSH - Three Day <input type="checkbox"/>	NY ASP A Package <input type="checkbox"/>
E-Mail Address: <u>S.muller@JCBrodenick.com</u>	E-Mail Address: _____	E-Mail Address: _____			RUSH - Four Day <input type="checkbox"/>	NY ASP B/CLP Pkg <input type="checkbox"/>
				Samples from: CT ___ NY <input checked="" type="checkbox"/> NJ ___	Standard(5-7 Days) <input checked="" type="checkbox"/>	NJDEP Reduced <input type="checkbox"/>

Print Clearly and Legibly. All Information must be complete.  
Samples will NOT be logged in and the turn-around time  
clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

STEVEN MULLER  
Name (printed)

		<b>Air Matrix Codes</b>	Additional Notes:				<b>Detection Limits Required</b>
		AI - INDOOR Ambient Air AO - OUTDOOR Amb. Air AE - Vapor Extraction Well/ Process Gas/Effluent AS - SOIL Vapor/Sub-Slab					≤ 1 ug/m <sup>3</sup>
						NYSDEC VI Limits <input checked="" type="checkbox"/> (VI =vapor intrusion) NJDEP low level <input type="checkbox"/>	
						Routine Survey <input type="checkbox"/>	
						Other <input type="checkbox"/>	
<b>Please enter the following Field Data</b>							

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont.ID	ANALYSES REQUESTED	Sampling Media
SS-1 MECH Rm	2/22/18	AS	30	6	17352	6868	TO-15 + He	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag <input type="checkbox"/>
FF-1 mech rm	2/22/18	AI	30	5	18307	6875	TO-15	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag <input type="checkbox"/>
SS-2 Boiler Room	2/22/18	AS	29	5	28304	5627	TO-15 + He	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag <input type="checkbox"/>
FF-6 Boiler Rm	2/22/18	AI	30	8	23155	6862	TO-15	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag <input type="checkbox"/>
FF-2 Rm K-C	2/22/18	AI	18	0	22080	Y12	TO-15	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag <input type="checkbox"/>
FF-3 Rm 103	2/22/18	AI	30	10	24128	5608	TO-15	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag <input type="checkbox"/>
FF-4 music rm	2/22/18	AI	30	6	18297	7361	TO-15	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag <input type="checkbox"/>
FF-5 Rm 207	2/22/18	AI	30	2	20665	5416	TO-15	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag <input type="checkbox"/>
AMBIENT	2/22/18	AO	28	11	Y85	Y85	TO-15	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag <input type="checkbox"/>
								6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag <input type="checkbox"/>

Comments

CHARLES CAMPAGNE IES  
601 PLAINVIEW RD.  
BETHPAGE, NY 11714

Samples Relinquished By KBaker Date/Time 2/23/18 12pm  
Samples Relinquished By KBaker Date/Time 2/26/18 730pm

Samples Received By ZD Date/Time 2-26-18 730  
Samples Received in LAB by ZD Date/Time 2-26-18 730