VOLATILE VAPOR INTRUSION (VVI) REPORT

KRAMER LANE ELEMENTARY SCHOOL
1 KRAMER LANE
PLAINVIEW, NEW YORK 11803

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

JCB PROJECT #: 22-51658
MAY 2022

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 Kramer Lane 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 1 Kramer Lane, Plainview, New York 11803. The Subject Site is located at the western terminus of Kramer Lane. 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 140 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

On April 19, 2022, a pre-sampling inspection was performed to evaluate the physical layout and conditions of the school building, to specifically determine the location of each sample, identify conditions that may affect or interfere with the proposed sampling and to prepare the building for sampling.

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

Section No. 3.2: Subsurface Vapor Sample Collection

The following summarizes the manner in which subsurface vapor samples were collected. Please refer to Figure No. 2 – Subsurface, Crawlspace, 1st Floor and Ambient Sampling Locations for additional details.

- For the collection of the subsurface vapor samples, a probe was fabricated from ½-inch diameter, threaded brass pipe with a barbed tubing connection. The two (2) layers of 6-mil polyethylene sheeting were penetrated and a one (1) inch diameter hole was drilled, utilizing a hammer drill, into the sand floor of the crawlspace extending approximately two (2) inches below the top of the sand. The pipe was lowered into the hole, but not flush to the bottom and set into place utilizing hydrated bentonite powder, which contains no Volatile Organic Compounds (VOCs). A five (5) gallon plastic container was placed on top of the plastic sheeting and above the vapor point. The container was sealed to the plastic sheeting utilizing modeling clay and duct tape. A Teflon-lined, ¼-inch I.D. disposable polyethylene tubing was then utilized to connect the barbed connection of the vapor point to a clean-certified, 6-liter SUMMA® canister, provided by York Analytical Labs, Inc. (York) through a flow controller pre-set for an eight (8) hour long sample duration. The tubing included a tee connection and valve to a purging vacuum pump calibrated for a flow rate of less than 0.2 liters per minute. The tubing, probe and subsurface soil was purged of at least one (1) liter of vapor prior to sample collection. Upon completion of the sampling, the polyethylene sheeting was replaced on the floor and secured in place with duct tape.

- Helium (He) was introduced into the atmosphere under the pail, as a tracer gas, to assure the viability of the vapor point seals with the atmosphere. The tracer gas was monitored in the purge air before sampling and outside of all seals before, during and after sampling, utilizing a Myron Helium Detector. In addition, Helium (He) was analyzed for in the SUMMA® canister and if detected at more than ten (10) percent, the sample would be considered invalid and retaken.

- On April 19, 2022, a total of two (2) subsurface vapor samples were collected.

    - One (1) subsurface sample was collected from beneath Classroom 102 located at the north end of the school building.

    - One (1) subsurface sample was collected from beneath Classroom 112 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 through a flow controller pre-set for an eight (8) hour long sample duration. As per the guidance requirements, the samples were collected at a height approximately three (3) feet above the floor to represent a height at which occupants are normally seated.

Section No. 3.3.1: Crawlspace Air Sample Collection

Please refer to Figure No. 2 - Subsurface, Crawlspace and Basement Sample Locations for additional details

- On April 19, 2022, a total of two (2) crawlspace air samples were collected.
  - One (1) air sample was collected from beneath Classroom 102 located at the north end of the school building.
  - One (1) air sample was collected from beneath Classroom 112 located at the south end of the school building.

Section No. 3.3.2: 1st Floor Air Sample Collection

Please refer to Figure No. 2 – Subsurface, Crawlspace, 1st Floor, and Ambient Sampling Locations for additional details.

- On April 19, 2022, a total of two (2) first floor air samples were collected.
  - One (1) air sample was collected from within Classroom 102 located at the north end of the school building.
  - One (1) air sample was collected from within Classroom 112 located at the south end of the school building.

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

An outdoor (ambient) air sample was collected simultaneously with subsurface and indoor samples to evaluate the potential influence, if any, of outdoor air on indoor air quality. To obtain a representative sample which meets the data quality objectives, the outdoor air sample was collected in a manner consistent with that for indoor air samples. The sample was collected, utilizing conventional sampling methods, in a laboratory clean-certified, 6-liter SUMMA® canister, provided by York equipped with a flow controller pre-set for an eight (8) hour sample duration. As per the guidance requirements, the sample was collected at a height approximately three (3) feet above the floor. Please refer to Figure No. 2 – Subsurface Crawlspace 1st Floor and Ambient Sampling Locations for additional details.

- On April 19, 2022, one (1) outdoor (ambient) air sample was collected.
  - One (1) air sample was collected from outside the west side of the school building adjacent to the west exit doors.

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

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

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

Client Sample ID	Background Values	North Subsurface[1]	North Crawlspace	Classroom 102	South Subsurface[1]	South Crawlspace	Classroom 112	Ambient
TO-15 List	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
1,1,1-Trichloroethane (TCA)	20.6	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	9.5	3.29	ND	0.59	4.19	ND	0.472	ND
1,1-Dichloroethylene	1.4	ND	ND	ND	ND	ND	ND	ND
2-Butanone	12	**442**	1.24	0.531	**442**	1.12	0.678	0.501
2-Hexanone	~	ND	ND	ND	ND	0.737	ND	ND
4-Methyl-2-pentanone	6	ND	0.401	ND	ND	ND	ND	ND
Acetone	98.9	**178**	7.60	5.70	**178**	7.84	42.74	3.09
Benzene	9.4	ND	0.351	0.415	ND	0.316	0.415	0.415
Carbon disulfide	4.2	2.708	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1.3	ND	0.358	0.365	ND	0.396	0.365	0.434
Chloromethane	3.7	ND	0.991	1.14	ND	1.05	1.22	1.30
cis-1,2-Dichloroethylene	1.9	ND	ND	ND	ND	0.143	ND	ND
Cyclohexane	~	ND	ND	ND	ND	ND	0.330	ND
Dichlorodifluoromethane	16.5	ND	2.52	2.47	ND	2.47	2.47	2.62
Ethyl acetate	5.4	ND	0.58	ND	ND	ND	0.684	ND
Ethyl Benzene	5.7	2.91	ND	ND	5.64	ND	ND	ND
Isopropanol	250	16.71	6.14	2.38	17.7	2.95	22.11	1.94
Methyl Methacrylate	~	ND	0.737	ND	ND	ND	1.47	ND
Methylene chloride	10	4.51	**11.11**	1.59	5.90	2.50	1.18	0.799
n-Heptane	~	ND	0.401	0.492	ND	0.369	0.451	ND
n-Hexane	10.2	4.58	0.289	ND	3.28	ND	ND	ND
o-Xylene	7.9	2.91	0.356	0.521	3.67	0.391	0.417	0.477
p- & m- Xylenes	~	ND	0.694	ND	7.38	ND	ND	ND
Tetrachloroethene (PCE)	15.9	ND	0.556	0.814	ND	3.19	0.651	0.746
Toluene	43	**377**	2.60	0.640	**753**	1.21	1.28	0.678
trans-1,2-Dichloroethylene	~	ND	0.388	ND	3.33	0.357	ND	ND
Trichloroethene (TCE)	4.2	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)	~	ND	1.40	1.39	ND	1.29	1.35	1.29
Vinyl Chloride	1.9	ND	ND	ND	ND	ND	ND	ND
Helium	~	ND	----	----	ND	----	----	----

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

Client Sample ID	Background Values	North Subsurface[1]	North Crawlspace	Classroom 102	South Subsurface[1]	South Crawlspace	Classroom 112	Ambient
TO-15 List	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³

Notes:
µg/m³ = parts per billion
NA = Background Value Not Established
ND = Not Detected above the laboratory minimum detection limit
~ = No regulatory limit bas been established in this analyte
Background Values = Table C2 EPA 2001: Building assessment and survey evaluation (BASE) database, SUMMA canister method - 90th percentile
[1] 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 Section 5.0 and Table No. 2 for additional information.
Helium was used as a tracer gas at the subsurface sample locations, a detection of over 10% would indicate a breakthrough in the subsurface probe seal.

The results of the air sampling from the North Crawlspace indicated the detection of methylene chloride at a concentration of 11.11 µg/m³ slightly above the EPA BASE 90th Percentile of 10.0 µg/m³.

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

Section No. 5.0: Decision Matrices

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

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

Table No. 2:
Volatile Chemicals Utilized in NYSDOH Decision Matrices

Compound	Soil Vapor/Indoor Air Decision Matrix	Result
1,1,1-Trichloroethane (TCA)	Matrix B	No Further Action
Carbon Tetrachloride	Matrix A	No Further Action
cis 1,2-Dichloroethene	Matrix A	No Further Action
1,1-Dichloroethene	Matrix A	No Further Action
Methylene Chloride	Matrix B	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 seven (7) of the eight (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 North Crawlspace. It should be noted that the crawl space 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. Methylene chloride is a solvent found in adhesives, paint and coating products, pharmaceuticals, metal cleaning, chemical processing, and aerosols. It should be noted that the detection of methylene chloride is well below the NYSDOH air guidance value of 60 $\mu g/m^3$.

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, with the exception of one (1) parameter in the North Crawlspace, all remaining detectable concentrations observed in the occupied spaces of the school building were below their background values as reported in the EPA 2001: Building assessment and survey evaluation (BASE) database, SUMMA canister method 90th Percentile found in NYSDOH's "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006. It is believed that the detection of methylene chloride in the north crawl space sample is the result of the use of cleaners and strippers and is not representative of the overall indoor air quality. It should be noted that the detection of methylene chloride in the 1st floor hallway is well below the NYSDOH air guidance value of 60 $\mu g/m^3$.

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

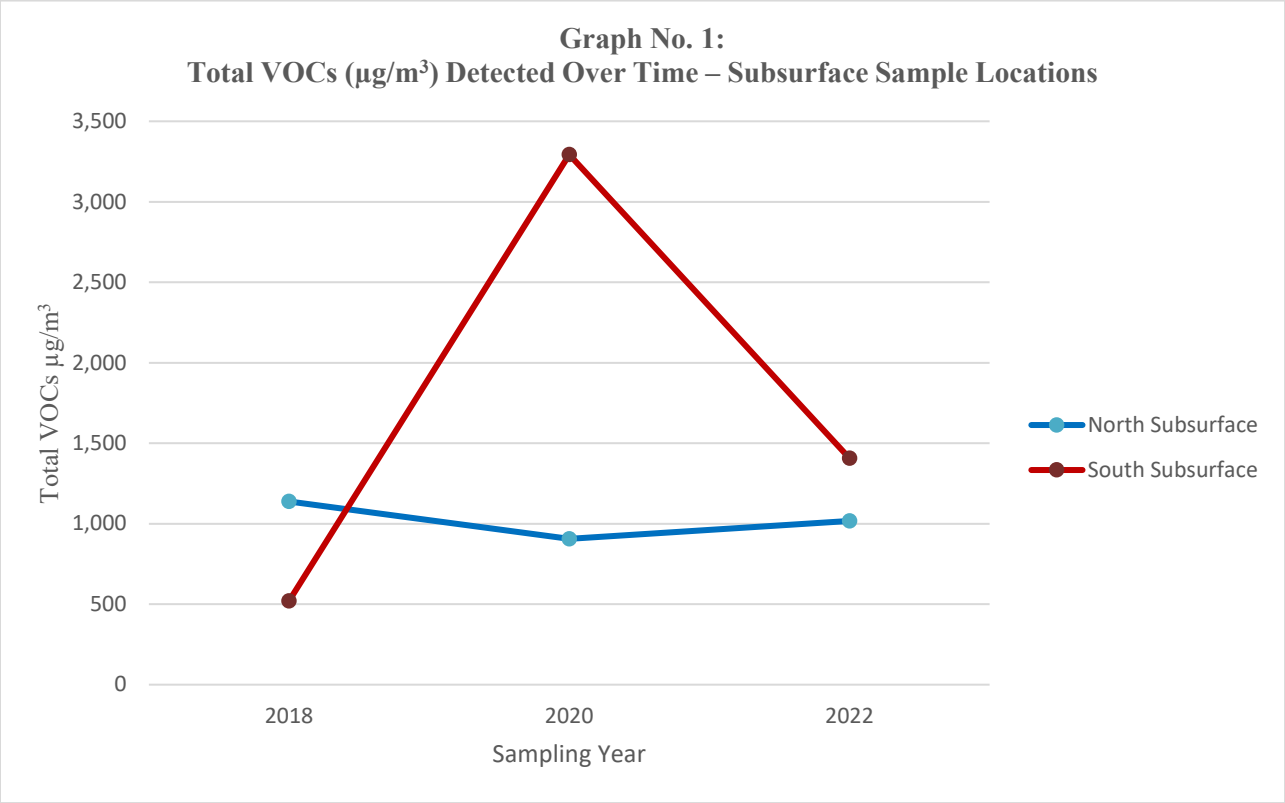
Section No. 7.1: Previous Analytical Results Trend Analysis

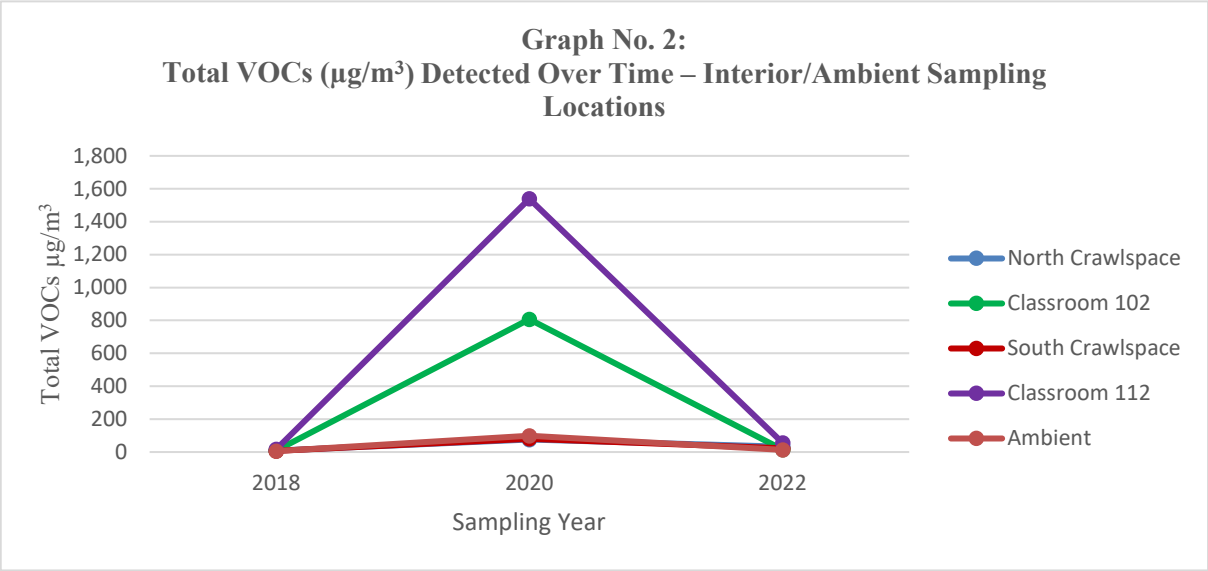
JCB performed the same volatile vapor intrusion sampling in 2018 and 2020. The 2022 analytical results for total VOCs were compared to the previous sampling results and are presented in Table No. 3.

Table No. 3:
Total VOCs (µg/m³) Detected Over Time

Location	Year		
	2018	2020	2022
North Subsurface	1,138	906	1,018
North Crawlspace	8.83	76.1	32.6
Classroom 102	8.99	807	15.9
South Subsurface	520	3,293	1,407
South Crawlspace	7.31	80.3	23.4
Classroom 112	17.1	1,539	56.2
Ambient	5.70	99.0	12.3

In general, the concentration of total VOCs has decreased in the North Subsurface sample and increased in the South Subsurface sample as indicated in Graph No. 1 below. The interior spaces did indicate an upward trend in total detected VOC concentration since 2018 at all locations, including the Ambient location as shown in Graph No. 2.





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 plastic barrier installed in the crawlspace of the building, although not its intended purpose has been relatively effectively in preventing the subsurface volatile vapors from migrating into the crawlspace and 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 periodic inspection of the plastic barrier be performed and that any rips or tears to the barrier be repaired.

Section No. 10.0: Certification

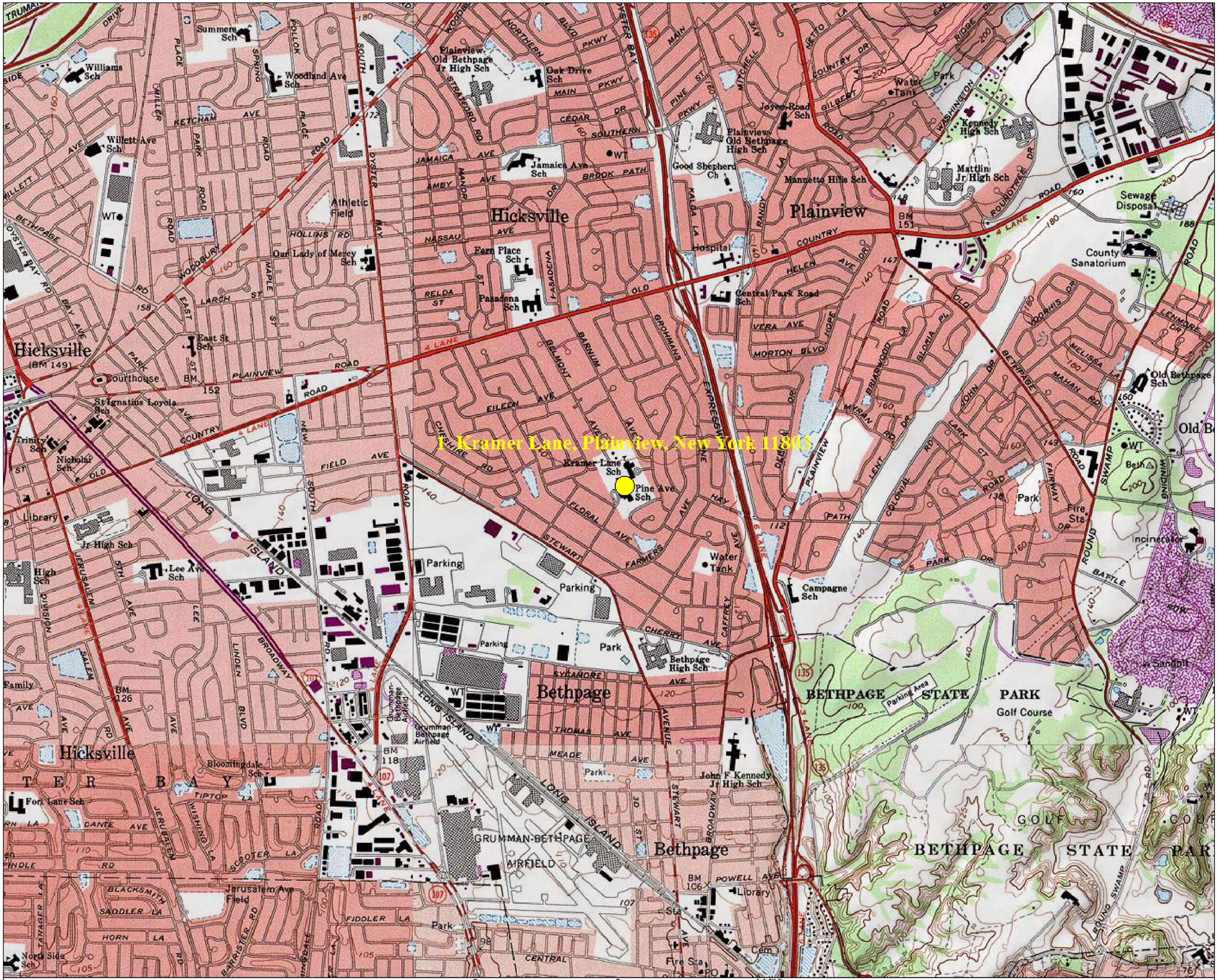
I certify that this Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the New York State Department of Health (NYSDOH) "Guidance for Evaluating Soil Vapor Intrusion in the State of New York", Final Version, October 2006 and that all activities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

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

Jeffrey V. Nannini
Environmental Scientist

Steven Muller, P.G.
Project Manager

Appendix A
Figures



JCB LEGEND
SUBJECT SITE

0 .5 1 MILE
0 1000 FEET
0 500 1000 METERS

Map created with TOPO!® ©2002 National Geographic (www.nationalgeographic.com/topo)

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1775 Express Drive North
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Notes:

Kramer Lane Elementary School
1 Kramer Lane
Plainview, NY 11803

Drawing Title

Figure No. 1

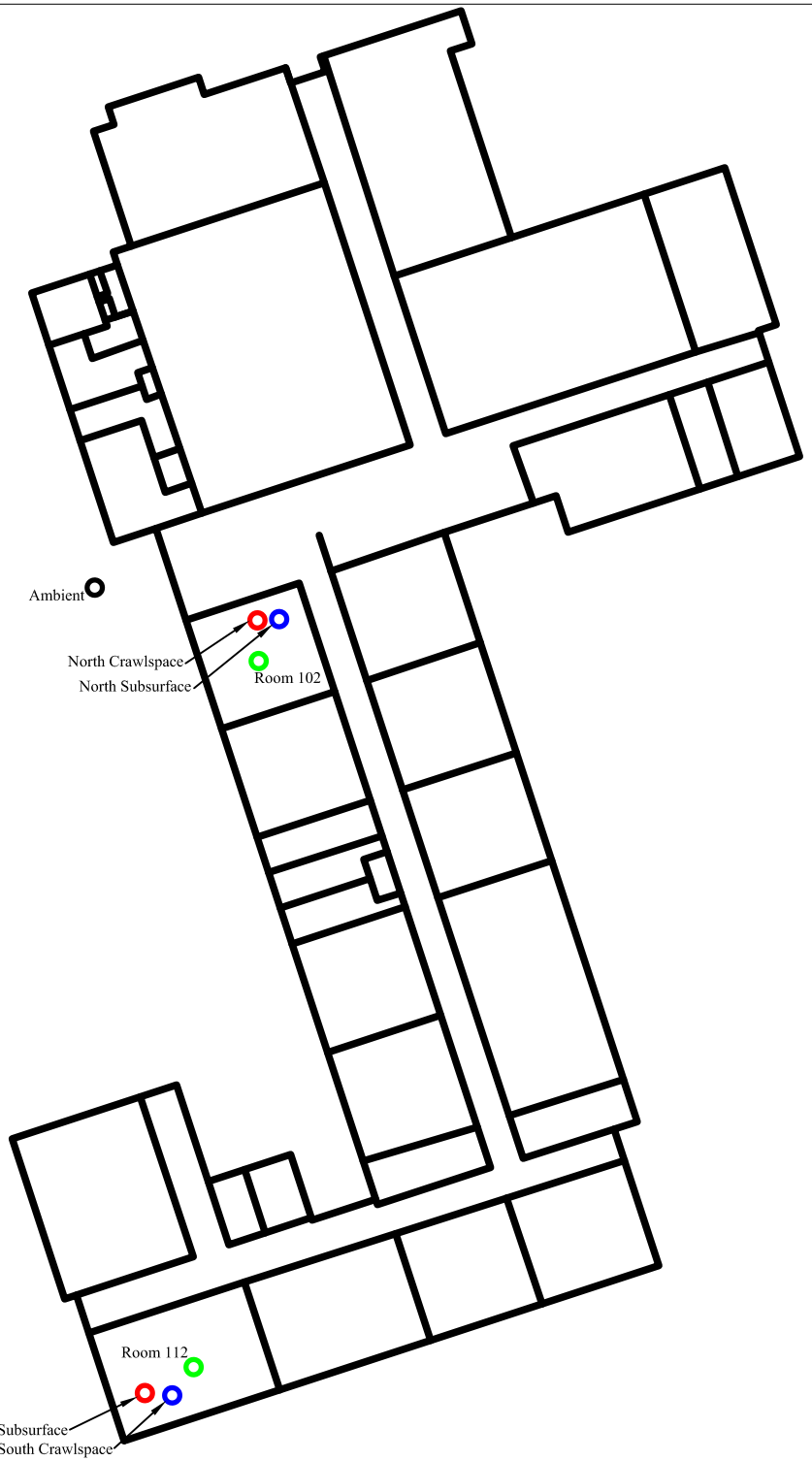
Site Location Map

Scale	Project No.	Date
As Noted	22-51658	04-19-2022

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

Drawing No.

1



PROJECT NORTH

JCB LEGEND

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

J.C. BRODERICK & Associates
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1775 Expressway Drive North
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Notes:

Kramer Lane
Elementary School
1 Kramer Lane
Plainview, NY 11803

Drawing Title

Figure No. 2

Subsurface, Crawlspace, 1st Floor and Ambient Sampling Locations

Scale	Project No.	Date
N.T.S.	22-51658	04-19-22

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

Drawing No.

2

Appendix B
Field Photograph Logs

Sampling Locations
North Subsurface (Left) & North Crawlspace (Right)

Field Photograph Log

Volatile Vapor Intrusion Report

Kramer Lane Elementary School
1 Kramer Lane
Plainview, New York 11803

Photo No. 01

JCB#: 22-51658

Sampling Locations
South Subsurface (Left) & South Crawlspace (Right)

Field Photograph Log

Volatile Vapor Intrusion Report

Kramer Lane Elementary School
1 Kramer Lane
Plainview, New York 11803

Photo No. 02

JCB#: 22-51658

Room 102
Sampling Location

Field Photograph Log

Volatile Vapor Intrusion Report

Kramer Lane Elementary School
1 Kramer Lane
Plainview, New York 11803

Photo No. 03

JCB#: 22-51658

Room 112
Sampling Location

Field Photograph Log

Volatile Vapor Intrusion Report

Kramer Lane Elementary School
1 Kramer Lane
Plainview, New York 11803

Photo No. 04

JCB#: 22-51658

Sampling Location
Ambient (Outdoor)

Field Photograph Log

Volatile Vapor Intrusion Report

Kramer Lane Elementary School
1 Kramer Lane
Plainview, New York 11803

Photo No. 05

JCB#: 22-51658

Appendix C
Laboratory Analysis Report

Technical Report

prepared for:

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

Report Date: 05/02/2022
Client Project ID: 22-51658 Kramer Lane E.S.
York Project (SDG) No.: 22D0984

Report Date: 05/02/2022
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J.C. Broderick
1775 North Express Drive
Hauppauge NY, 11788
Attention: Steven Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 21, 2022 and listed below. The project was identified as your project: **22-51658 Kramer Lane E.S.**.

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

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

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

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

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22D0984-01	North Subsurface	Soil Vapor	04/19/2022	04/21/2022
22D0984-02	North Crawlspace	Indoor Ambient Air	04/19/2022	04/21/2022
22D0984-03	Room 102	Indoor Ambient Air	04/19/2022	04/21/2022
22D0984-04	South Subsurface	Soil Vapor	04/19/2022	04/21/2022
22D0984-05	South Crawlspace	Indoor Ambient Air	04/19/2022	04/21/2022
22D0984-06	Room 112	Indoor Ambient Air	04/19/2022	04/21/2022
22D0984-07	Ambient	Outdoor Ambient Ai	04/19/2022	04/21/2022

General Notes for York Project (SDG) No.: 22D0984

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

Approved By:  **Date:** 05/02/2022

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: North Subsurface

York Sample ID: 22D0984-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Soil Vapor	April 19, 2022 3:00 pm	04/21/2022

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		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 15:07	AS
71-55-6	1,1,1-Trichloroethane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
79-00-5	1,1,2-Trichloroethane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
75-34-3	1,1-Dichloroethane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
75-35-4	1,1-Dichloroethylene	ND		ppbv	0.17	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
106-93-4	1,2-Dibromoethane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
95-50-1	1,2-Dichlorobenzene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
107-06-2	1,2-Dichloroethane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
78-87-5	1,2-Dichloropropane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
106-99-0	1,3-Butadiene	ND		ppbv	2.0	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
541-73-1	1,3-Dichlorobenzene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
142-28-9	* 1,3-Dichloropropane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 15:07	AS

Sample Information

Client Sample ID: North Subsurface

York Sample ID: 22D0984-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Soil Vapor	April 19, 2022 3:00 pm	04/21/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
123-91-1	1,4-Dioxane	ND		ppbv	1.3	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
78-93-3	**2-Butanone**	**150**		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
591-78-6	* 2-Hexanone	ND		ppbv	1.3	6.724	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 15:07	AS
107-05-1	3-Chloropropene	ND		ppbv	3.4	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
108-10-1	4-Methyl-2-pentanone	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
67-64-1	**Acetone**	**75**		ppbv	1.3	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
107-13-1	Acrylonitrile	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
71-43-2	Benzene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
100-44-7	Benzyl chloride	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
75-27-4	Bromodichloromethane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
75-25-2	Bromoform	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
74-83-9	Bromomethane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
75-15-0	**Carbon disulfide**	**0.87**		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
56-23-5	Carbon tetrachloride	ND		ppbv	0.17	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
108-90-7	Chlorobenzene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
75-00-3	Chloroethane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
67-66-3	Chloroform	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
74-87-3	Chloromethane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS

Sample Information

Client Sample ID: North Subsurface

York Sample ID: 22D0984-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Soil Vapor	April 19, 2022 3:00 pm	04/21/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ppbv	0.17	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
110-82-7	Cyclohexane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
124-48-1	Dibromochloromethane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
75-71-8	Dichlorodifluoromethane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
141-78-6	* Ethyl acetate	ND		ppbv	1.3	6.724	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 15:07	AS
100-41-4	Ethyl Benzene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
87-68-3	Hexachlorobutadiene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
67-63-0	**Isopropanol**	**6.8**	B	ppbv	3.4	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
80-62-6	Methyl Methacrylate	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
75-09-2	Methylene chloride	ND		ppbv	1.3	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
142-82-5	n-Heptane	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
110-54-3	**n-Hexane**	**1.3**		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
95-47-6	o-Xylene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
179601-23-1	p- & m- Xylenes	ND		ppbv	1.3	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS
622-96-8	* p-Ethyltoluene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 15:07	AS
115-07-1	* Propylene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 15:07	AS
100-42-5	Styrene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 15:07	AS

Sample Information

Client Sample ID: North Subsurface **York Sample ID:** 22D0984-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Soil Vapor	April 19, 2022 3:00 pm	04/21/2022

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
109-99-9	* Tetrahydrofuran	ND		ppbv	1.3	6.724	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 15:07	AS
108-88-3	**Toluene**	**100**		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
79-01-6	Trichloroethylene	ND		ppbv	0.17	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
108-05-4	Vinyl acetate	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
593-60-2	Vinyl bromide	ND		ppbv	0.67	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS
75-01-4	Vinyl Chloride	ND		ppbv	0.34	6.724	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 15:07	AS

Helium **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: PREP for GASES by GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-59-7	* Helium	ND		%	0.50	1	GC/TCD Certifications:	05/02/2022 10:49	05/02/2022 17:59	TMP

Sample Information

Client Sample ID: North Crawlspace **York Sample ID:** 22D0984-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:** **TO-VAC**

Sample Information

Client Sample ID: North Crawlspace

York Sample ID: 22D0984-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

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		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 16:17	AS
71-55-6	1,1,1-Trichloroethane	ND		ppbv	0.082	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ppbv	0.082	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ppbv	0.082	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS
79-00-5	1,1,2-Trichloroethane	ND		ppbv	0.082	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS
75-34-3	1,1-Dichloroethane	ND		ppbv	0.082	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS
75-35-4	1,1-Dichloroethylene	ND		ppbv	0.020	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ppbv	0.082	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ppbv	0.082	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS
106-93-4	1,2-Dibromoethane	ND		ppbv	0.082	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS
95-50-1	1,2-Dichlorobenzene	ND		ppbv	0.082	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS
107-06-2	1,2-Dichloroethane	ND		ppbv	0.082	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS
78-87-5	1,2-Dichloropropane	ND		ppbv	0.082	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ppbv	0.082	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ppbv	0.082	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS
106-99-0	1,3-Butadiene	ND		ppbv	0.25	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS
541-73-1	1,3-Dichlorobenzene	ND		ppbv	0.082	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS
142-28-9	* 1,3-Dichloropropane	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 16:17	AS
106-46-7	1,4-Dichlorobenzene	ND		ppbv	0.082	0.817	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 16:17	AS

Sample Information

Client Sample ID: North Crawlspace **York Sample ID:** 22D0984-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ppbv	0.16	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
78-93-3	**2-Butanone**	**0.42**		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
591-78-6	* 2-Hexanone	ND		ppbv	0.16	0.817	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 16:17	AS
107-05-1	3-Chloropropene	ND		ppbv	0.41	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
108-10-1	**4-Methyl-2-pentanone**	**0.098**		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
67-64-1	**Acetone**	**3.2**		ppbv	0.16	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
107-13-1	Acrylonitrile	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
71-43-2	**Benzene**	**0.11**		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
100-44-7	Benzyl chloride	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
75-27-4	Bromodichloromethane	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
75-25-2	Bromoform	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
74-83-9	Bromomethane	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
75-15-0	Carbon disulfide	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
56-23-5	**Carbon tetrachloride**	**0.057**		ppbv	0.020	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
108-90-7	Chlorobenzene	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
75-00-3	Chloroethane	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
67-66-3	Chloroform	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
74-87-3	**Chloromethane**	**0.48**		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ppbv	0.020	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS

Sample Information

Client Sample ID: North Crawlspace **York Sample ID:** 22D0984-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:** TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
110-82-7	Cyclohexane	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
124-48-1	Dibromochloromethane	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
75-71-8	**Dichlorodifluoromethane**	**0.51**		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
141-78-6	* Ethyl acetate	ND		ppbv	0.16	0.817	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 16:17	AS
100-41-4	Ethyl Benzene	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
87-68-3	Hexachlorobutadiene	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
67-63-0	**Isopropanol**	**2.5**	B	ppbv	0.41	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
80-62-6	**Methyl Methacrylate**	**0.18**		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
75-09-2	**Methylene chloride**	**3.2**		ppbv	0.16	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
142-82-5	**n-Heptane**	**0.098**		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
110-54-3	**n-Hexane**	**0.082**		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
95-47-6	o-Xylene	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
179601-23-1	p- & m- Xylenes	ND		ppbv	0.16	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
622-96-8	* p-Ethyltoluene	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 16:17	AS
115-07-1	* Propylene	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 16:17	AS
100-42-5	Styrene	ND		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
127-18-4	**Tetrachloroethylene**	**0.082**		ppbv	0.082	0.817	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 16:17	AS
109-99-9	* Tetrahydrofuran	ND		ppbv	0.16	0.817	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 16:17	AS

Sample Information

Client Sample ID: North Crawlspace **York Sample ID:** 22D0984-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	**Toluene**	**0.69**		ppbv	0.082	0.817	EPA TO-15	04/30/2022 05:45	04/30/2022 16:17	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	**trans-1,2-Dichloroethylene**	**0.098**		ppbv	0.082	0.817	EPA TO-15	04/30/2022 05:45	04/30/2022 16:17	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ppbv	0.082	0.817	EPA TO-15	04/30/2022 05:45	04/30/2022 16:17	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ppbv	0.020	0.817	EPA TO-15	04/30/2022 05:45	04/30/2022 16:17	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**0.25**		ppbv	0.082	0.817	EPA TO-15	04/30/2022 05:45	04/30/2022 16:17	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ppbv	0.082	0.817	EPA TO-15	04/30/2022 05:45	04/30/2022 16:17	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ppbv	0.082	0.817	EPA TO-15	04/30/2022 05:45	04/30/2022 16:17	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ppbv	0.041	0.817	EPA TO-15	04/30/2022 05:45	04/30/2022 16:17	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: Room 102 **York Sample ID:** 22D0984-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

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		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: **Room 102** **York Sample ID:** **22D0984-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

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
75-34-3	1,1-Dichloroethane	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
75-35-4	1,1-Dichloroethylene	ND		ppbv	0.029	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
106-93-4	1,2-Dibromoethane	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
95-50-1	1,2-Dichlorobenzene	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
107-06-2	1,2-Dichloroethane	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
78-87-5	1,2-Dichloropropane	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
106-99-0	1,3-Butadiene	ND		ppbv	0.35	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
541-73-1	1,3-Dichlorobenzene	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
142-28-9	* 1,3-Dichloropropane	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 17:26	AS
106-46-7	1,4-Dichlorobenzene	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
123-91-1	1,4-Dioxane	ND		ppbv	0.23	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
78-93-3	**2-Butanone**	**0.18**		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
591-78-6	* 2-Hexanone	ND		ppbv	0.23	1.153	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 17:26	AS
107-05-1	3-Chloropropene	ND		ppbv	0.58	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
108-10-1	4-Methyl-2-pentanone	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS

Sample Information

Client Sample ID: **Room 102** **York Sample ID:** **22D0984-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**2.4**		ppbv	0.23	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**0.13**		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	Carbon disulfide	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	**Carbon tetrachloride**	**0.058**		ppbv	0.029	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	Chloroethane	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	Chloroform	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	**Chloromethane**	**0.55**		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ppbv	0.029	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	Cyclohexane	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	**Dichlorodifluoromethane**	**0.50**		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ppbv	0.23	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications:			

Sample Information

Client Sample ID: **Room 102** **York Sample ID:** **22D0984-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
87-68-3	Hexachlorobutadiene	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
67-63-0	**Isopropanol**	**0.97**	B	ppbv	0.58	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
80-62-6	Methyl Methacrylate	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
75-09-2	**Methylene chloride**	**0.44**		ppbv	0.23	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
142-82-5	n-Heptane	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
110-54-3	n-Hexane	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
95-47-6	o-Xylene	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
179601-23-1	p- & m- Xylenes	ND		ppbv	0.23	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
622-96-8	* p-Ethyltoluene	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 17:26	AS
115-07-1	* Propylene	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 17:26	AS
100-42-5	Styrene	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
127-18-4	Tetrachloroethylene	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
109-99-9	* Tetrahydrofuran	ND		ppbv	0.23	1.153	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 17:26	AS
108-88-3	**Toluene**	**0.17**		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ppbv	0.12	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS
79-01-6	Trichloroethylene	ND		ppbv	0.029	1.153	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 17:26	AS

Sample Information

Client Sample ID: **Room 102** **York Sample ID:** **22D0984-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	**Trichlorofluoromethane (Freon 11)**	**0.24**		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ppbv	0.12	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ppbv	0.058	1.153	EPA TO-15	04/30/2022 05:45	04/30/2022 17:26	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: **South Subsurface** **York Sample ID:** **22D0984-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Soil Vapor	April 19, 2022 3:00 pm	04/21/2022

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		ppbv	0.84	8.415	EPA TO-15	04/30/2022 05:45	04/30/2022 18:23	AS
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ppbv	0.84	8.415	EPA TO-15	04/30/2022 05:45	04/30/2022 18:23	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ppbv	0.84	8.415	EPA TO-15	04/30/2022 05:45	04/30/2022 18:23	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ppbv	0.84	8.415	EPA TO-15	04/30/2022 05:45	04/30/2022 18:23	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ppbv	0.84	8.415	EPA TO-15	04/30/2022 05:45	04/30/2022 18:23	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ppbv	0.84	8.415	EPA TO-15	04/30/2022 05:45	04/30/2022 18:23	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ppbv	0.21	8.415	EPA TO-15	04/30/2022 05:45	04/30/2022 18:23	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ppbv	0.84	8.415	EPA TO-15	04/30/2022 05:45	04/30/2022 18:23	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	1,2,4-Trimethylbenzene	ND		ppbv	0.84	8.415	EPA TO-15	04/30/2022 05:45	04/30/2022 18:23	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: South Subsurface

York Sample ID: 22D0984-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Soil Vapor	April 19, 2022 3:00 pm	04/21/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
95-50-1	1,2-Dichlorobenzene	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
107-06-2	1,2-Dichloroethane	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
78-87-5	1,2-Dichloropropane	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
106-99-0	1,3-Butadiene	ND		ppbv	2.5	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
541-73-1	1,3-Dichlorobenzene	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
142-28-9	* 1,3-Dichloropropane	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 18:23	AS
106-46-7	1,4-Dichlorobenzene	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
123-91-1	1,4-Dioxane	ND		ppbv	1.7	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
78-93-3	**2-Butanone**	**150**		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
591-78-6	* 2-Hexanone	ND		ppbv	1.7	8.415	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 18:23	AS
107-05-1	3-Chloropropene	ND		ppbv	4.2	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
108-10-1	4-Methyl-2-pentanone	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
67-64-1	**Acetone**	**75**		ppbv	1.7	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
107-13-1	Acrylonitrile	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
71-43-2	Benzene	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
100-44-7	Benzyl chloride	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS

Sample Information

Client Sample ID: **South Subsurface** **York Sample ID:** **22D0984-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Soil Vapor	April 19, 2022 3:00 pm	04/21/2022

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
75-27-4	Bromodichloromethane	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
75-25-2	Bromoform	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
74-83-9	Bromomethane	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
75-15-0	Carbon disulfide	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
56-23-5	Carbon tetrachloride	ND		ppbv	0.21	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
108-90-7	Chlorobenzene	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
75-00-3	Chloroethane	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
67-66-3	Chloroform	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
74-87-3	Chloromethane	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ppbv	0.21	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
110-82-7	Cyclohexane	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
124-48-1	Dibromochloromethane	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
75-71-8	Dichlorodifluoromethane	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
141-78-6	* Ethyl acetate	ND		ppbv	1.7	8.415	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 18:23	AS
100-41-4	**Ethyl Benzene**	**1.3**		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
87-68-3	Hexachlorobutadiene	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
67-63-0	**Isopropanol**	**7.2**	B	ppbv	4.2	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
80-62-6	Methyl Methacrylate	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS

Sample Information

Client Sample ID: **South Subsurface** **York Sample ID:** **22D0984-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Soil Vapor	April 19, 2022 3:00 pm	04/21/2022

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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
75-09-2	Methylene chloride	ND		ppbv	1.7	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
142-82-5	n-Heptane	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
110-54-3	**n-Hexane**	**0.93**		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
95-47-6	o-Xylene	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
179601-23-1	p- & m- Xylenes	ND		ppbv	1.7	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
622-96-8	* p-Ethyltoluene	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 18:23	AS
115-07-1	* Propylene	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 18:23	AS
100-42-5	Styrene	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
127-18-4	Tetrachloroethylene	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
109-99-9	* Tetrahydrofuran	ND		ppbv	1.7	8.415	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 18:23	AS
108-88-3	**Toluene**	**200**		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
79-01-6	Trichloroethylene	ND		ppbv	0.21	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
108-05-4	Vinyl acetate	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
593-60-2	Vinyl bromide	ND		ppbv	0.84	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS
75-01-4	Vinyl Chloride	ND		ppbv	0.42	8.415	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 18:23	AS

Sample Information

Client Sample ID: South Subsurface **York Sample ID:** 22D0984-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Soil Vapor	April 19, 2022 3:00 pm	04/21/2022

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		%	0.50	1	GC/TCD Certifications:	05/02/2022 10:49	05/02/2022 17:59	TMP

Sample Information

Client Sample ID: South Crawlspace **York Sample ID:** 22D0984-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

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		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 19:32	AS
71-55-6	1,1,1-Trichloroethane	ND		ppbv	0.090	0.901	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 19:32	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ppbv	0.090	0.901	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 19:32	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ppbv	0.090	0.901	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 19:32	AS
79-00-5	1,1,2-Trichloroethane	ND		ppbv	0.090	0.901	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 19:32	AS
75-34-3	1,1-Dichloroethane	ND		ppbv	0.090	0.901	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 19:32	AS
75-35-4	1,1-Dichloroethylene	ND		ppbv	0.023	0.901	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 19:32	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ppbv	0.090	0.901	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 19:32	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ppbv	0.090	0.901	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 19:32	AS
106-93-4	1,2-Dibromoethane	ND		ppbv	0.090	0.901	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 19:32	AS
95-50-1	1,2-Dichlorobenzene	ND		ppbv	0.090	0.901	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 19:32	AS

Sample Information

Client Sample ID: South Crawlspace **York Sample ID:** 22D0984-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
78-87-5	1,2-Dichloropropane	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
106-99-0	1,3-Butadiene	ND		ppbv	0.27	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
541-73-1	1,3-Dichlorobenzene	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
142-28-9	* 1,3-Dichloropropane	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 19:32	AS
106-46-7	1,4-Dichlorobenzene	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
123-91-1	1,4-Dioxane	ND		ppbv	0.18	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
78-93-3	**2-Butanone**	**0.38**		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
591-78-6	* 2-Hexanone	ND		ppbv	0.18	0.901	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 19:32	AS
107-05-1	3-Chloropropene	ND		ppbv	0.45	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
108-10-1	4-Methyl-2-pentanone	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
67-64-1	**Acetone**	**3.3**		ppbv	0.18	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
107-13-1	Acrylonitrile	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
71-43-2	**Benzene**	**0.099**		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
100-44-7	Benzyl chloride	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
75-27-4	Bromodichloromethane	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
75-25-2	Bromoform	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS

Sample Information

Client Sample ID: South Crawlspace

York Sample ID: 22D0984-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
75-15-0	Carbon disulfide	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
56-23-5	**Carbon tetrachloride**	**0.063**		ppbv	0.023	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
108-90-7	Chlorobenzene	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
75-00-3	Chloroethane	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
67-66-3	Chloroform	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
74-87-3	**Chloromethane**	**0.51**		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
156-59-2	**cis-1,2-Dichloroethylene**	**0.036**		ppbv	0.023	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
110-82-7	Cyclohexane	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
124-48-1	Dibromochloromethane	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
75-71-8	**Dichlorodifluoromethane**	**0.50**		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
141-78-6	* Ethyl acetate	ND		ppbv	0.18	0.901	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 19:32	AS
100-41-4	Ethyl Benzene	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
87-68-3	Hexachlorobutadiene	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
67-63-0	**Isopropanol**	**1.2**	B	ppbv	0.45	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
80-62-6	Methyl Methacrylate	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
75-09-2	**Methylene chloride**	**0.72**		ppbv	0.18	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS

Sample Information

Client Sample ID: South Crawlspace **York Sample ID:** 22D0984-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

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
142-82-5	n-Heptane	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
110-54-3	n-Hexane	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
95-47-6	o-Xylene	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
179601-23-1	p- & m- Xylenes	ND		ppbv	0.18	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
622-96-8	* p-Ethyltoluene	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 19:32	AS
115-07-1	* Propylene	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 19:32	AS
100-42-5	Styrene	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
127-18-4	**Tetrachloroethylene**	**0.47**		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
109-99-9	* Tetrahydrofuran	ND		ppbv	0.18	0.901	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 19:32	AS
108-88-3	**Toluene**	**0.32**		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
79-01-6	Trichloroethylene	ND		ppbv	0.023	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
75-69-4	**Trichlorofluoromethane (Freon 11)**	**0.23**		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
108-05-4	Vinyl acetate	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
593-60-2	Vinyl bromide	ND		ppbv	0.090	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS
75-01-4	Vinyl Chloride	ND		ppbv	0.045	0.901	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 19:32	AS

Sample Information

Client Sample ID: **Room 112** **York Sample ID:** **22D0984-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

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		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 20:41	AS
71-55-6	1,1,1-Trichloroethane	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
79-00-5	1,1,2-Trichloroethane	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
75-34-3	1,1-Dichloroethane	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
75-35-4	1,1-Dichloroethylene	ND		ppbv	0.024	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
106-93-4	1,2-Dibromoethane	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
95-50-1	1,2-Dichlorobenzene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
107-06-2	1,2-Dichloroethane	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
78-87-5	1,2-Dichloropropane	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
106-99-0	1,3-Butadiene	ND		ppbv	0.29	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
541-73-1	1,3-Dichlorobenzene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
142-28-9	* 1,3-Dichloropropane	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 20:41	AS
106-46-7	1,4-Dichlorobenzene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS

Sample Information

Client Sample ID: **Room 112** **York Sample ID:** **22D0984-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ppbv	0.19	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
78-93-3	**2-Butanone**	**0.23**		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
591-78-6	* 2-Hexanone	ND		ppbv	0.19	0.964	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 20:41	AS
107-05-1	3-Chloropropene	ND		ppbv	0.48	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
108-10-1	4-Methyl-2-pentanone	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
67-64-1	**Acetone**	**18**		ppbv	0.19	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
107-13-1	Acrylonitrile	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
71-43-2	**Benzene**	**0.13**		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
100-44-7	Benzyl chloride	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
75-27-4	Bromodichloromethane	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
75-25-2	Bromoform	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
74-83-9	Bromomethane	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
75-15-0	Carbon disulfide	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
56-23-5	**Carbon tetrachloride**	**0.058**		ppbv	0.024	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
108-90-7	Chlorobenzene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
75-00-3	Chloroethane	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
67-66-3	Chloroform	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
74-87-3	**Chloromethane**	**0.59**		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ppbv	0.024	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS

Sample Information

Client Sample ID: **Room 112** **York Sample ID:** **22D0984-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

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
10061-01-5	cis-1,3-Dichloropropylene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
110-82-7	Cyclohexane	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
124-48-1	Dibromochloromethane	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
75-71-8	**Dichlorodifluoromethane**	**0.50**		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
141-78-6	* Ethyl acetate	ND		ppbv	0.19	0.964	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 20:41	AS
100-41-4	Ethyl Benzene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
87-68-3	Hexachlorobutadiene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
67-63-0	**Isopropanol**	**9.0**	B	ppbv	0.48	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
80-62-6	**Methyl Methacrylate**	**0.36**		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
75-09-2	**Methylene chloride**	**0.34**		ppbv	0.19	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
142-82-5	**n-Heptane**	**0.11**		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
110-54-3	n-Hexane	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
95-47-6	o-Xylene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
179601-23-1	p- & m- Xylenes	ND		ppbv	0.19	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
622-96-8	* p-Ethyltoluene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 20:41	AS
115-07-1	* Propylene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 20:41	AS
100-42-5	Styrene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS
127-18-4	Tetrachloroethylene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 20:41	AS

Sample Information

Client Sample ID: **Room 112** **York Sample ID:** **22D0984-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Indoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

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
109-99-9	* Tetrahydrofuran	ND		ppbv	0.19	0.964	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 20:41	AS
108-88-3	**Toluene**	**0.34**		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
79-01-6	Trichloroethylene	ND		ppbv	0.024	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
75-69-4	**Trichlorofluoromethane (Freon 11)**	**0.24**		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
108-05-4	Vinyl acetate	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
593-60-2	Vinyl bromide	ND		ppbv	0.096	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS
75-01-4	Vinyl Chloride	ND		ppbv	0.048	0.964	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 20:41	AS

Sample Information

Client Sample ID: **Ambient** **York Sample ID:** **22D0984-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Outdoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

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		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 21:50	AS
71-55-6	1,1,1-Trichloroethane	ND		ppbv	0.11	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ppbv	0.11	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ppbv	0.11	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS

Sample Information

Client Sample ID: **Ambient** **York Sample ID:** **22D0984-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Outdoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

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
79-00-5	1,1,2-Trichloroethane	ND		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS
75-34-3	1,1-Dichloroethane	ND		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS
75-35-4	1,1-Dichloroethylene	ND		ppbv	0.029	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS
106-93-4	1,2-Dibromoethane	ND		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS
95-50-1	1,2-Dichlorobenzene	ND		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS
107-06-2	1,2-Dichloroethane	ND		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS
78-87-5	1,2-Dichloropropane	ND		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS
106-99-0	1,3-Butadiene	ND		ppbv	0.34	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS
541-73-1	1,3-Dichlorobenzene	ND		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS
142-28-9	* 1,3-Dichloropropane	ND		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 21:50	AS
106-46-7	1,4-Dichlorobenzene	ND		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS
123-91-1	1,4-Dioxane	ND		ppbv	0.23	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS
78-93-3	**2-Butanone**	**0.17**		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS
591-78-6	* 2-Hexanone	ND		ppbv	0.23	1.146	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 21:50	AS
107-05-1	3-Chloropropene	ND		ppbv	0.57	1.146	EPA TO-15 Certifications:	04/30/2022 05:45 NELAC-NY12058,NJDEP-Queens	04/30/2022 21:50	AS

Sample Information

Client Sample ID: **Ambient** **York Sample ID:** **22D0984-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Outdoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**1.3**		ppbv	0.23	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**0.13**		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	Carbon disulfide	ND		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	**Carbon tetrachloride**	**0.069**		ppbv	0.029	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	Chloroform	ND		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	**Chloromethane**	**0.63**		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND		ppbv	0.029	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	Cyclohexane	ND		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	**Dichlorodifluoromethane**	**0.53**		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: **Ambient** **York Sample ID:** **22D0984-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Outdoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
141-78-6	* Ethyl acetate	ND		ppbv	0.23	1.146	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 21:50	AS
100-41-4	Ethyl Benzene	ND		ppbv	0.11	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS
87-68-3	Hexachlorobutadiene	ND		ppbv	0.11	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS
67-63-0	**Isopropanol**	**0.79**	B	ppbv	0.57	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS
80-62-6	Methyl Methacrylate	ND		ppbv	0.11	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ppbv	0.11	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS
75-09-2	Methylene chloride	ND		ppbv	0.23	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS
142-82-5	n-Heptane	ND		ppbv	0.11	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS
110-54-3	n-Hexane	ND		ppbv	0.11	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS
95-47-6	o-Xylene	ND		ppbv	0.11	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS
179601-23-1	p- & m- Xylenes	ND		ppbv	0.23	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS
622-96-8	* p-Ethyltoluene	ND		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 21:50	AS
115-07-1	* Propylene	ND		ppbv	0.11	1.146	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 21:50	AS
100-42-5	Styrene	ND		ppbv	0.11	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS
127-18-4	Tetrachloroethylene	ND		ppbv	0.11	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS
109-99-9	* Tetrahydrofuran	ND		ppbv	0.23	1.146	EPA TO-15 Certifications:	04/30/2022 05:45	04/30/2022 21:50	AS
108-88-3	**Toluene**	**0.18**		ppbv	0.11	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ppbv	0.11	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ppbv	0.11	1.146	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/30/2022 05:45	04/30/2022 21:50	AS

Sample Information

Client Sample ID: **Ambient** **York Sample ID:** **22D0984-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22D0984	22-51658 Kramer Lane E.S.	Outdoor Ambient Air	April 19, 2022 3:00 pm	04/21/2022

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
79-01-6	Trichloroethylene	ND		ppbv	0.029	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**0.23**		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ppbv	0.11	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ppbv	0.057	1.146	EPA TO-15	04/30/2022 05:45	04/30/2022 21:50	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample and Data Qualifiers Relating to This Work Order

TO-VAC	The final vacuum in the canister was less than -2 inches Hg vacuum. The time integrated sampling may be affected and not reflect proper sampling over the time period. The data user should take note.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon current NELAC/TNI 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

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

YORK Project No. 22D0984

Page 1 of 1

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: J.C. Broderick & Associates, Inc	Company: JCB	Company: JCB	22-51658	RUSH - Next Day
Address: 1775 Express Dr. N Hauppauge NY 11788	Address:	Address:		RUSH - Two Day
			YOUR Project Name	RUSH - Three Day
Phone: 631-584-5492	Phone:	Phone:	Kramer Lane E.S.	RUSH - Four Day
Contact: Steven Muller	Contact:	Contact:		Standard (5-7 Day) X
E-mail: SMuller@JCBroderick.com	E-mail:	E-mail:	YOUR PO#:	

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

Jeffrey Nannini

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

[signature]

Air Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
AI - Indoor Ambient Air	New York X	(Summary Report)	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
AO - Outdoor Amb. Air	New Jersey	QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
AE - Vapor Extraction Well/ Process Gas/Effluent	Connecticut	NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS	
AS - Soil Vapor/Sub-Slab	Pennsylvania	NY ASP B Package	NJDKQP	NJDEP SRP HazSite	
	Other	Other:			

Certified Canisters: Batch ___ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ X ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
North Subsurface	4/19/22	AS	30	5	41842	7422	TO-15+He
North Crawlspace	4/19/22	AI	29	2	27196	5606	TO-15
Room 102	4/19/22	AI	30	8	15608	13558	TO-15
South Subsurface	4/19/22	AS	30	4	28704	7350	TO-15+He
South Crawlspace	4/19/22	AI	70	5	28316	12190	TO-15
Room 112	4/19/22	AI	29	6	36411	13574	TO-15
Ambient	4/19/22	AO	29	8	28855	12191	TO-15

Comments: Kramer Lane E.S.
1 Kramer Lane
Plainview, NY 11803

Detection Limits Required: ≤ 1 ug/m³ X NYSDEC V1 Limits ___ Routine Survey ___ Other ___

Sampling Media: 6 Liter Canister X | Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
[signature] / JCB	4/20/22 1250 PM	K Badyork	4/20/22 1250 PM	K Badyork	4/21/22 7AM
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Queens Secure Room	4/21/22 7AM				
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				[signature]	04/21/22 10:56