



# CASTLETON

ENVIRONMENTAL

February 25, 2020

ZL 2720 LLC

c/o Eiseman, Levine, Lehrhaupt & Kakoyiannis, P.C.

805 Third Avenue, 10th Floor

New York, NY 10022

ATTN: Mr. Howard Roitman

[HRoitman@EisemanLevine.com](mailto:HRoitman@EisemanLevine.com)

**RE: Phase II Environmental Site Assessment Report  
27-20 42<sup>nd</sup> Road, Long Island City, New York**

Dear Mr. Roitman:

Please find the attached Phase II Environmental Site Assessment Report for the property located at 27-20 42nd Road, Long Island City, New York.

Thank you for the opportunity. Please call with any questions or comments.

Very truly yours,

**Castleton Environmental Geologic Services DPC**

Frank P. Castellano, PG  
Principal

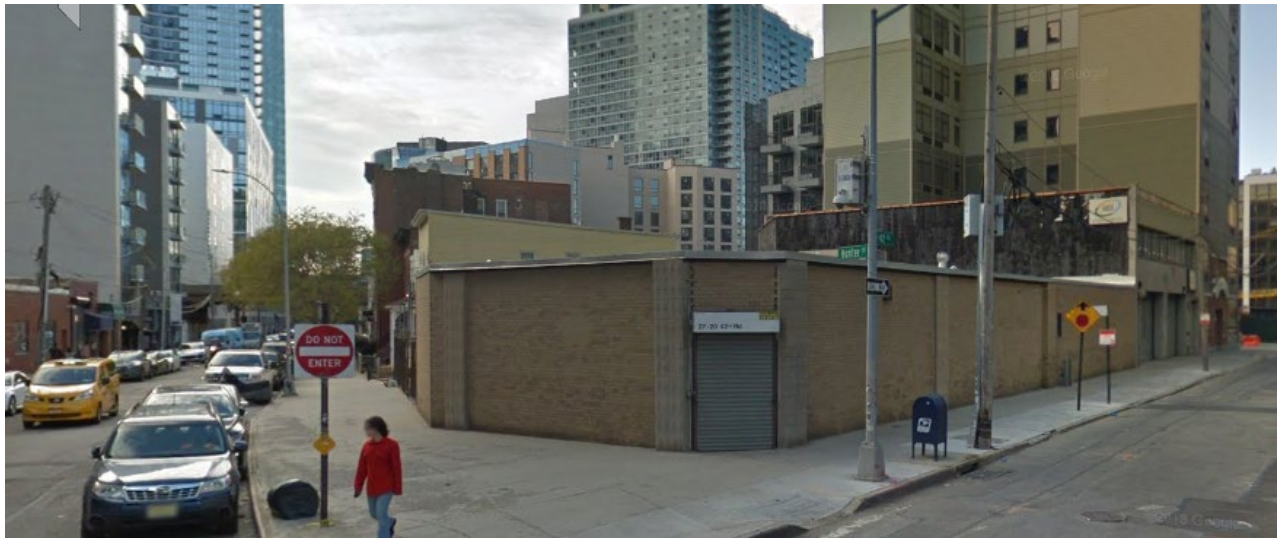


# CASTLETON

ENVIRONMENTAL

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## Phase II Environmental Site Assessment 27-20 42<sup>nd</sup> Road Long Island City, New York February 2020



Prepared for: ZL 2720 LLC  
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**PHASE II ENVIRONMENTAL SITE ASSESSMENT  
27-20 42<sup>ND</sup> ROAD  
LONG ISLAND CITY, NEW YORK  
FEBRUARY 2020  
CASTLETON PROJECT NUMBER: ZLLC2001**

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## 1.0 INTRODUCTION

Castleton Environmental Geologic Services DPC (Castleton) has prepared this Phase II Environmental Site Assessment (ESA) report to document the findings of the subsurface investigation performed at 27-20 42<sup>nd</sup> Road, Long Island City, New York (the site). This work was performed based on review of the Phase I ESA prepared by C2C Environmental dated February 11, 2020.

The objectives of this investigation were to assess overall subsurface quality in preparation for redevelopment. These objectives were met by the performance of a geophysical survey and the collection and laboratory analysis of soil, groundwater and sub-slab vapor samples.

## 2.0 SITE BACKGROUND

The site is located at 27-20 42<sup>nd</sup> Road, Long Island City, New York (Figure 1). The site is located on the northwest corner of the intersection of 42nd Road and Hunter Street, in the community of Long Island City, Borough and County of Queens, New York. It currently exists as an approximately 7,915 square foot lot that contains a one-story industrial and manufacturing building with no basement or sub-grade areas as well as an associated asphalt parking lot.

The following recognized environmental conditions (RECs) were identified in the Phase I ESA:

- The listing of the subject property as an E-Designation Site by the NYCOER.
- The presence of a suspect pipe in the rear parking lot of the site.

Based on the findings of the Phase I Environmental Site Assessment, C2C made the following recommendations:

- A subsurface investigation that includes the advancement of borings across the site and the completion of a geophysical survey should be conducted to determine if any soil, groundwater, and/or soil-gas impacts exist at the site, as well as to attempt to determine if any possible underground storage tanks (USTs) are in place.

## 3.0 PHASE II ESA FIELD INVESTIGATION

The objectives of this investigation were to assess overall subsurface quality at the site.

The following scope of work was completed to meet the objectives:

Task	Objective
Geophysical Survey	Determine the location of potential USTs, trace piping, and to clear underground obstructions and utilities prior to intrusive activities commencing.
Soil Sampling	Assess overall subsurface soil quality
Groundwater Sampling	Assess overall groundwater quality
Sub-slab Vapor Sampling	Assess overall subsurface vapor quality



On-site work was completed on February 14, 2020. Sample collection locations are depicted on Figure 3.

### 3.1 Geophysical Survey

A geophysical survey was performed to identify evidence of subsurface anomalies, specifically to trace suspect piping in the parking lot area, assess for the presence of USTs and to mark on-site utilities. The survey was performed using a variety of remote sensing equipment/methods including a magnetometer to identify ferrous metallic objects, ground penetrating radar (GPR) to identify changes in soil density and a pipe locating device to trace piping runs. The geophysical survey was performed by Delta Geophysics, Inc. of Catasauqua, Pennsylvania.

The suspect piping within the parking lot was traced to a catch basin with no direct discharge located in the parking lot. Based on the location of the pipe, it is suspected to be cut roof drain piping.

The remainder of the site was scanned. No evidence of USTs or anomalies of concern were identified during the geophysical survey.

The geophysical survey report is included as Appendix A.

### 3.2 Soil Investigation

Four soil borings, SB01 through SB04, were advanced throughout the site. Soil borings were advanced by direct push technology (Geoprobe®) by Coastal Environmental Services, Inc. of Medford, New York.

Soil borings were advanced from 12 to 14.5 feet in depth. Soil was collected continuously, and field screened with a photoionization detector (PID) for the presence of volatile organic compounds (VOCs). Soil consisted of fill to approximately 6 feet below grade with silt and sand below. No field sensory, olfactory or visual impacts to soil were observed. Groundwater was encountered between 13 and 14 feet below grade. Soil boring logs are provided as Appendix A.

The following table describes the soil samples collected for laboratory analysis from each boring:

Boring Location	Soil Sample for Analysis	Notes
SB01	3-5 feet	Fill Material
SB01	12-14 feet	Native Soil
SB02	10-12 feet	Native Soil
SB03	6-8 feet	Fill Material/Native Soil Interface
SB04	3-6 feet	Fill Material



Soil retained for laboratory analysis was placed into laboratory supplied glassware and submitted under chain of custody to York Analytical Laboratories of Stratford, Connecticut, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory.

Soil samples indicative of fill material were analyzed for:

- VOCs via USEPA Method 8260
- Semi-volatile organic compounds (SVOCs) via USEPA Method 8270
- Pesticides via EPA Method 8081
- PCBs via EPA Method 8082
- Metals via EPA Method 6010/7473

Native soil samples were analyzed for:

- VOCs via USEPA Method 8260
- SVOCs via USEPA Method 8270

### **3.3 Groundwater Investigation**

One groundwater sample (GW01) was collected from soil boring SB01. The groundwater sample was collected by using a discreet sampler and disposable dedicated tubing. Groundwater retained for laboratory analysis was placed into laboratory supplied glassware and submitted under chain of custody to York Analytical Laboratories of Stratford, Connecticut, a NYSDOH ELAP certified laboratory.

The groundwater sample was analyzed for:

- VOCs via USEPA Method 8260
- SVOCs via USEPA Method 8270

### **3.4 Vapor Investigation**

A vapor investigation was completed to sub-slab vapor conditions beneath the building slab. Samples were collected in accordance with the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH October 2006).

Three sub-slab vapor samples (SSV01 through SSV03) were collected within the building. A hammer drill was used to drill through the concrete slab. The sub-slab vapor sample points were set no more than two inches below the building slab. Dedicated polyethylene tubing was used at each sample point. The sample point was sealed with bentonite.

One to three volumes were purged prior to vapor sample collection to ensure samples collected are representative. Sub-slab vapor samples were collected in Summa canisters which were certified clean by the laboratory. Flow rate of both purging and sampling did not exceed 0.2 L/min and sampling occurred for a 2-hour period.

Sub-slab vapor samples were submitted to York Analytical Laboratories of Stratford, Connecticut under chain of custody and analyzed for VOCs by EPA Method TO-15.

#### 4.0 ANALYTICAL RESULTS

##### 4.1 Soil Analytical Results

Soil quality analytical results were compared to NYSDEC Part 375 Soil Cleanup Objectives (SCOs).

Soil analytical results reported concentrations of VOCs as non-detect or below applicable standards in the five samples analyzed.

Soil analytical results reported concentrations of Pesticides as non-detect or below applicable standards in the three samples analyzed.

Soil analytical results reported concentrations of SVOCs as non-detect or below applicable standards in four of the five soil samples analyzed. The following SVOCs were reported above standards in soil sample SB01(3-5):

Sample ID	NYSDEC SCOs- Unrestricted Use	NYSDEC SCOs- Restricted Residential	NYSDEC SCOs - Commercial	NYSDEC SCOs - Industrial	SB01 (3-5)
	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzo(a)anthracene	1	1	5.6	11	1.380 D
Benzo(a)pyrene	1	1	1	1.1	1.720 D
Benzo(b)fluoranthene	1	1	5.6	11	1.480 D
Benzo(k)fluoranthene	0.8	3.9	56	110	1.260 D
Chrysene	1	3.9	56	110	1.320 D
Dibenzo(a,h)anthracene	0.33	0.33	0.56	1.1	0.381 D
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	11	0.961 D

Notes:

-mg/kg = milligrams per kilogram

-ND = result reported as non-detect

Soil analytical results reported concentrations of PCBs as non-detect in two of the three soil samples analyzed. Total PCBs was above the Commercial Use SCO in soil sample SB04(3-6).

Soil analytical results reported concentrations of metals above applicable standards in the three soil samples analyzed as shown below:



Sample ID	NYSDEC SCOs- Unrestricted Use	NYSDEC SCOs- Restricted Residential	NYSDEC SCOs - Commercial	NYSDEC SCOs - Industrial	SB01 (3-5)	SB03 (6-8)	SB04 (3-6)
					mg/Kg	mg/Kg	mg/Kg
Barium	350	400	400	10000	496	143	106
Copper	50	270	270	10000	154	92	27.100
Lead	63	400	1000	3900	3,510	164	136
Mercury	0.18	0.81	2.8	5.7	0.995	0.0409	0.137
Zinc	109	10000	10000	10000	622	564	96.200
Chromium, Trivalent	30	180	1500	6800	31.300	26.600	23.400

The overall data set shows that the soil from grade to approximately 6 feet below grade is indicative of historic fill.

A summary of the analytical results is presented as Table 1. The laboratory report is included as Appendix C.

#### 4.2 Groundwater Analytical Results

Groundwater analytical results were compared to NYSDEC TOGS 1.1.1 Ambient Water Quality Standards (AWQS).

Groundwater analytical results reported concentrations of VOCs and SVOCs as non-detect or below applicable standards in the groundwater sample analyzed. Please note that several compounds were reported as non-detect but above the analytical method detection limit. Based on the overall data set, this is not evidence of a release that would warrant a remedial action.

A summary of the analytical results is presented as Table 2. The laboratory report is included as Appendix C.

#### 4.3 Vapor Analytical Results

NYSDOH decision matrices have been established for tetrachloroethylene (PCE), trichloroethylene (TCE), 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane (1,1,1-TCA), carbon tetrachloride, methylene chloride, and vinyl chloride to assist with the evaluation of sub-slab vapor sampling results.

Matrix A is used for carbon tetrachloride, 1,1-dichloroethylene, cis-1,2-dichloroethylene, and TCE with a response threshold of 6 ug/m<sup>3</sup> for sub-slab vapor concentrations. Matrix B is used for methylene chloride, PCE, and 1,1,1-TCA with a response threshold of 100 ug/m<sup>3</sup> for sub-slab vapor concentrations. Matrix C is used for vinyl chloride with a response threshold of 6 ug/m<sup>3</sup> for sub-slab vapor concentrations.

The following tables shows the concentrations of these VOCs reported in the sub-slab vapor samples:

Sample ID	NYSDOH Response Thresholds	SSV01	SSV02	SSV03
<b>Volatile Organics</b>	ug/m <sup>3</sup>	ug/m <sup>3</sup>	ug/m <sup>3</sup>	ug/m <sup>3</sup>
1,1,1-Trichloroethane	100	37 D	790 D	16 D
1,1-Dichloroethylene	6	ND	ND	ND
Carbon tetrachloride	6	0.540 D	ND	1 D
cis-1,2-Dichloroethylene	6	ND	ND	ND
Methylene chloride	100	ND	ND	ND
Tetrachloroethylene	100	3.400 D	1.700 D	47 D
Trichloroethylene	6	ND	ND	ND
Vinyl Chloride	6	ND	ND	ND

Notes:

-ug/m<sup>3</sup> = micrograms per cubic meter

-ND = result reported as non-detect

PCE, TCE, 1,1-dichloroethylene, cis-1,2-dichloroethylene, carbon tetrachloride, methylene chloride, and vinyl chloride were reported as non-detect or below the applicable response thresholds in the three sub-slab vapor samples analyzed.

1,1,1-TCA was reported above its response threshold of 100 ug/m<sup>3</sup> in one of the three sub-slab vapor samples. Based on the NYSDOH decision matrices, the recommended action is to “mitigate”. The NYCOER will require a mitigation effort to prevent these vapors from entering the new building during redevelopment. Appropriate mitigation efforts include the installation of a vapor barrier and a sub-slab depressurization system as part of the redevelopment project.

A summary table of sub-slab vapor quality results is included as Table 3. Laboratory analytical reports are included in Appendix C. NYSDOH matrices are included as Appendix D.

## 5.0 CONCLUSIONS AND RECOMMENDATIONS

Castleton has prepared this Phase II ESA report to document the findings of the subsurface investigation performed at 27-20 42<sup>nd</sup> Road, Long Island City, New York. This work was performed based on review of the Phase I ESA prepared by C2C Environmental dated February 11, 2020.

The objectives of this investigation were to assess overall subsurface quality in preparation for redevelopment. These objectives were met by the performance of a geophysical survey and the collection and laboratory analysis of soil, groundwater and sub-slab vapor samples.



During the geophysical survey, the suspect piping within the parking lot was traced to a catch basin with no direct discharge located in the parking lot. Based on the location of the pipe, it is suspected to be cut roof drain piping. The remainder of the site was scanned. No evidence of USTs or anomalies of concern were identified during the geophysical survey.

Four soil borings were advanced and five soil samples submitted for laboratory analysis. Analytical results reported concentrations of SVOCs, PCBs, and metals in soil above applicable standards to approximately 6 feet below grade. The overall data set shows that the soil from grade to approximately 6 feet below grade is indicative of historic fill. This soil should be handled and properly disposed as per NYSDEC and NYCOER during the development project.

One groundwater sample was collected and laboratory analyzed. Analytical results reported concentrations of VOCs and SVOCs as non-detect or below applicable standards.

Three sub-slab vapor samples were collected and laboratory analyzed. Analytical results reported concentrations of chemicals of concern related to chlorinated VOCs including 1,1,1-TCA above NYSDOH response thresholds. Based on the NYSDOH decision matrices, the recommended action is to “mitigate”. The NYCOER will require a mitigation effort to prevent these vapors from entering the new building during redevelopment. Appropriate mitigation efforts include the installation of a vapor barrier and a sub-slab depressurization system as part of the redevelopment project.



## 6.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that to the best of our knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR and, we have the specific qualifications based on education, training, and experience to perform Phase II Environmental Site Assessments.

A stylized, handwritten signature in black ink, consisting of a large, sweeping 'F' followed by a horizontal line.

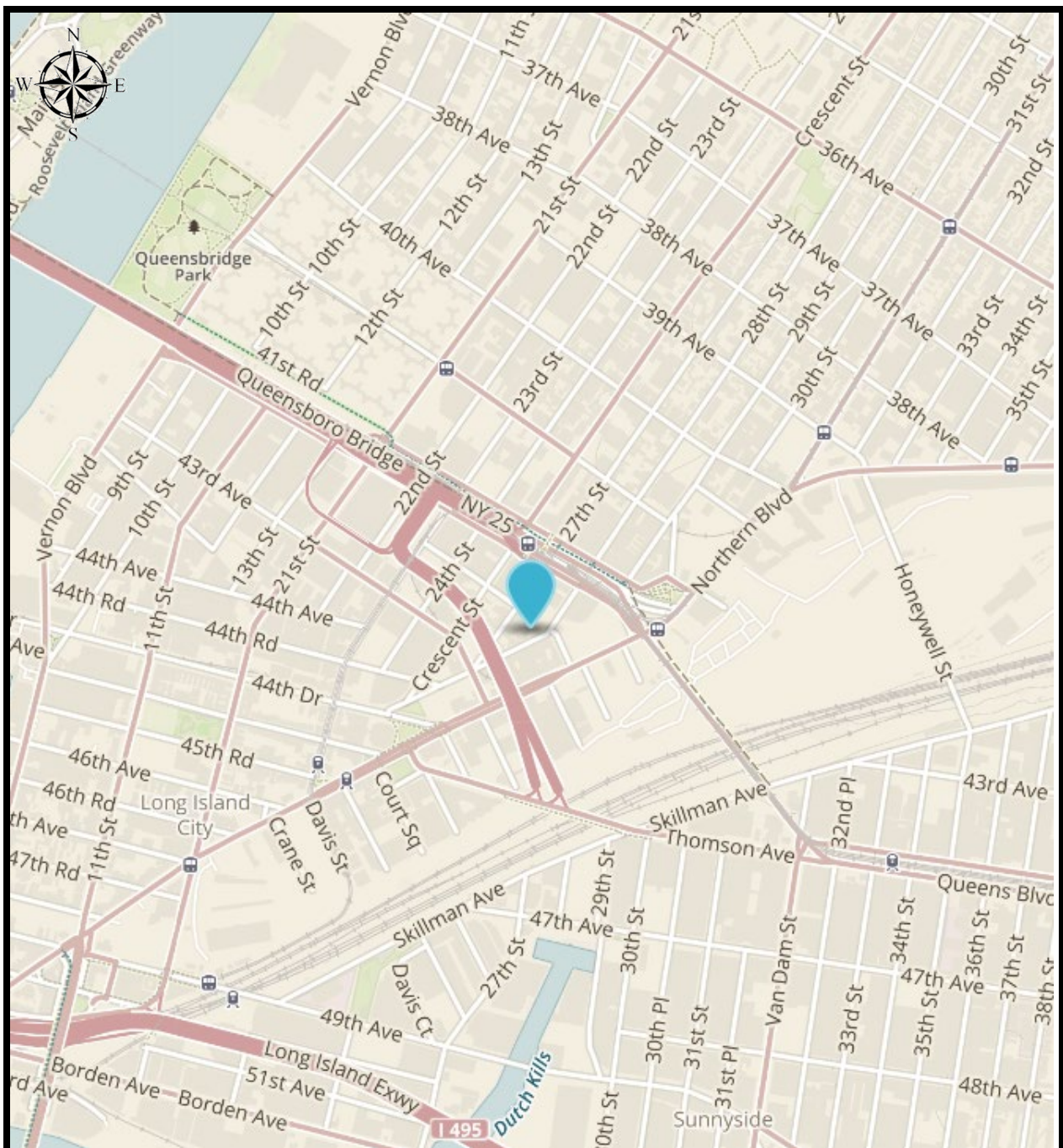
Frank P. Castellano, PG  
Principal

A handwritten signature in black ink that reads "Jessica Ferngren" in a cursive script.

Jessica Ferngren, PG  
Sr. Consultant



## FIGURES



Leaflet © Mapbox © OpenStreetMap | Improve

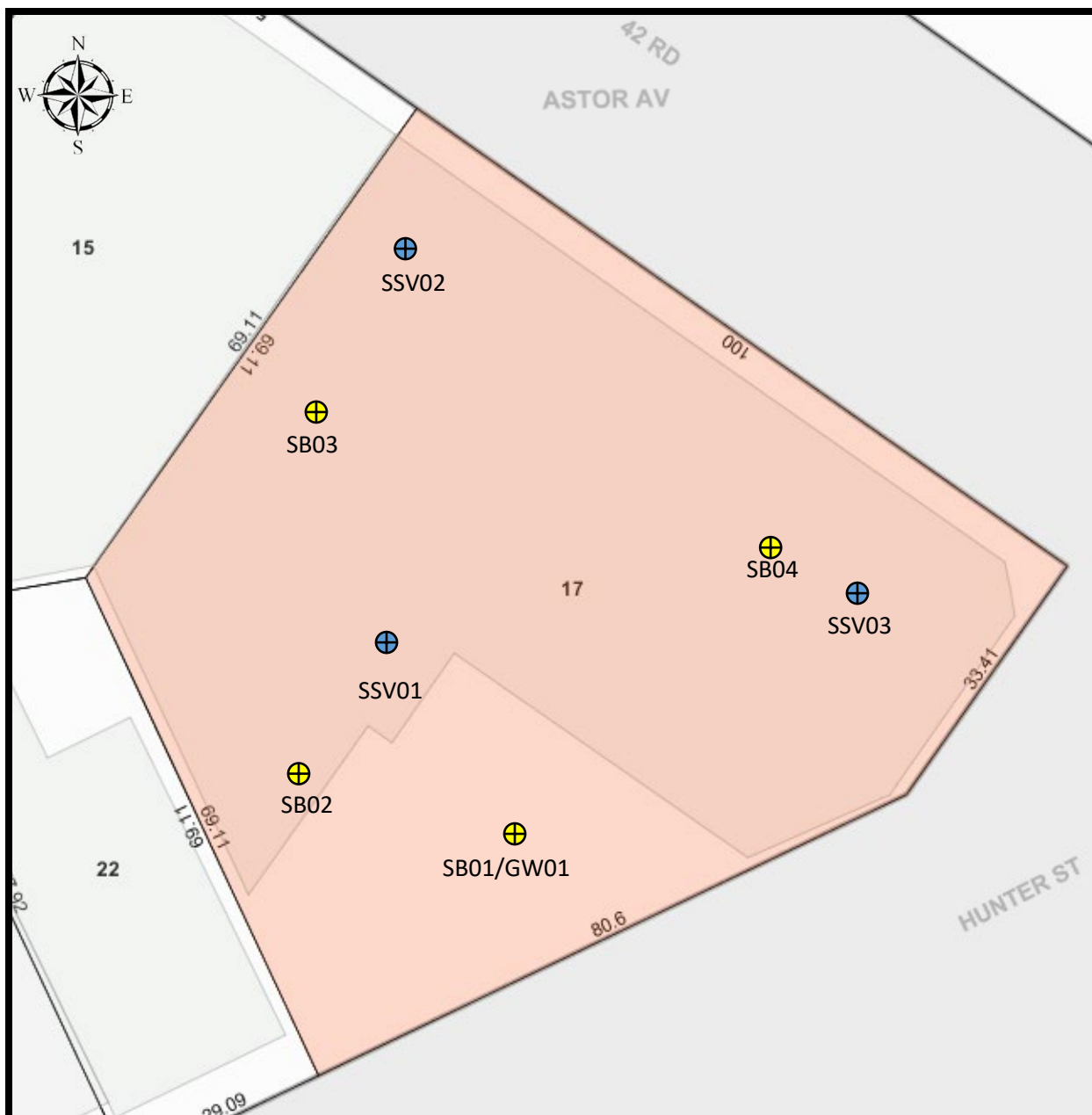
## Figure 1 – Vicinity Map

27-20 42<sup>nd</sup> Road

Long Island City, New York

0 500 1000 1500 2000  
(FEET)





LEGEND:

- SITE BOUNDARY
- ⊕ SOIL BORING LOCATION
- ⊕ SUB-SLAB VAPOR SAMPLE LOCATION

**Figure 2 – Site Plan**  
**27-20 42<sup>nd</sup> Road**  
**Long Island City, New York**



## **TABLES**



TABLE 1  
SOIL ANALYTICAL SUMMARY  
VOLATILE ORGANIC COMPOUNDS  
27-20 42ND ROAD, LONG ISLAND CITY, NEW YORK  
FEBRUARY 2020

Sample ID York ID		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Commercial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Industrial	S801 (3-5) 2080564-01 2/14/2020 Soil	S802 (10-12) 2080564-02 2/14/2020 Soil	S803 (6-8) 2080564-03 2/14/2020 Soil	S801 (12-14) 2080564-04 2/14/2020 Soil	S804 (3-6) 2080564-05 2/14/2020 Soil
Sampling Date										
Client Matrix										
Compound	CAS Number	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Volatiles Organics, B260 - Comprehensive										
Dilution Factor		1	1	1	1	1	1	1	1	1
1,1,1,2-Tetrachloroethane	630-20-6	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,1,1-Trichloroethane	71-55-6	0.68	100	500	1000	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,1,2,2-Tetrachloroethane	79-34-5	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,1,2-Trichloroethane	79-00-5	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,1-Dichloroethane	75-34-3	0.27	26	240	480	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,1-Dichloroethylene	75-35-4	0.33	100	500	1000	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,2,3-Trichlorobenzene	87-61-6	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,2,3-Trichloropropane	96-18-4	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,2,4-Trichlorobenzene	120-82-1	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,2,4-Trimethylbenzene	95-63-6	3.6	52	190	380	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,2-Dibromo-3-chloropropane	96-12-8	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,2-Dibromoethane	106-93-4	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,2-Dichlorobenzene	95-50-1	1.1	100	500	1000	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,2-Dichloroethane	107-06-2	0.02	3.1	30	60	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,2-Dichloropropane	78-87-5	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,3,5-Trimethylbenzene	108-67-8	8.4	52	190	380	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,3-Dichlorobenzene	541-73-1	2.4	49	280	560	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,4-Dichlorobenzene	106-46-7	1.8	13	130	250	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
1,4-Dioxane	123-91-1	0.1	13	130	250	0.063 U	0.0570 U	0.05 U	0.0480 U	0.053 U
2-Butanone	78-93-3	0.12	100	500	1000	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
2-Hexanone	591-78-6	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
4-Methyl-2-pentanone	108-10-1	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Acetone	67-64-1	0.05	100	500	1000	0.0063 U	0.00570 U	0.005 U	0.00480 U	0.0092 U
Acrolein	107-02-8	~	~	~	~	0.0063 U	0.00570 U	0.005 U	0.00480 U	0.0053 U
Acrylonitrile	107-13-1	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Benzene	71-43-2	0.06	4.8	44	89	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Bromochloromethane	74-97-5	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Bromodichloromethane	75-27-4	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Bromoform	75-25-2	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Bromomethane	74-83-9	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Carbon disulfide	75-15-0	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Carbon tetrachloride	56-23-5	0.76	2.4	22	44	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Chlorobenzene	108-90-7	1.1	100	500	1000	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Chloroethane	75-00-3	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Chloroform	67-66-3	0.37	49	350	700	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Chloromethane	74-87-3	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
cis-1,2-Dichloroethylene	156-59-2	0.25	100	500	1000	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
cis-1,3-Dichloropropylene	10061-01-5	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Cyclohexane	110-82-7	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Dibromochloromethane	124-48-1	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Dibromomethane	74-95-3	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Dichlorodifluoromethane	75-71-8	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Ethyl Benzene	100-41-4	1	41	390	780	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Hexachlorobutadiene	87-68-3	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Isopropylbenzene	98-82-8	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Methyl acetate	79-20-9	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Methyl tert-butyl ether (MTBE)	1634-04-4	0.93	100	500	1000	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Methylcyclohexane	108-87-2	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Methylene chloride	75-09-2	0.05	100	500	1000	0.0063 U	0.0180 U	0.005 U	0.0130 U	0.0053 U
n-Butylbenzene	104-51-8	12	100	500	1000	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
n-Propylbenzene	103-65-1	3.5	100	500	1000	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
o-Xylene	95-47-6	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
p- & m- Xylenes	179601-23-1	~	~	~	~	0.0063 U	0.00570 U	0.005 U	0.00480 U	0.0053 U
p-Isopropyltoluene	99-87-6	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
sec-Butylbenzene	135-98-8	11	100	500	1000	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Styrene	100-42-5	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
tert-Butyl alcohol (TBA)	75-65-0	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
tert-Butylbenzene	98-06-6	5.9	100	500	1000	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Tetrachloroethylene	127-18-4	1.1	19	150	300	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Toluene	108-88-3	0.7	100	500	1000	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
trans-1,2-Dichloroethylene	156-60-5	0.19	100	500	1000	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
trans-1,3-Dichloropropylene	10061-02-6	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
trans-1,4-dichloro-2-butene	110-57-6	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Trichloroethylene	79-01-6	0.47	21	200	400	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Trichlorofluoromethane	75-69-4	~	~	~	~	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Vinyl Chloride	75-01-4	0.02	0.9	13	27	0.0031 U	0.00280 U	0.0025 U	0.00240 U	0.0026 U
Xylenes, Total	1330-20-7	0.26	100	500	1000	0.0094 U	0.00850 U	0.0074 U	0.00720 U	0.0079 U

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

D= result is from an analysis that required a dilution

J= analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U= analyte not detected at or above the level indicated

B= analyte found in the analysis batch blank

E= result is estimated and cannot be accurately reported due to levels encountered or interferences

P= this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis

NT= this indicates the analyte was not a target for this sample

~= this indicates that no regulatory limit has been established for this analyte

TABLE 1 (CONTINUED)  
SOIL ANALYTICAL SUMMARY  
SEMI-VOLATILE ORGANIC COMPOUNDS  
27-20 42ND ROAD, LONG ISLAND CITY, NEW YORK  
FEBRUARY 2020

Sample ID York ID		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Commercial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Industrial	S801 (3-5) 2080564-01 2/14/2020 Soil	S802 (10-12) 2080564-02 2/14/2020 Soil	S803 (6-8) 2080564-03 2/14/2020 Soil	S801 (12-14) 2080564-04 2/14/2020 Soil	S804 (3-6) 2080564-05 2/14/2020 Soil
Sampling Date Client Matrix	Compound	CAS Number				Result	Result	Result	Result	Result
	Semi-Volatiles, 8270 - Comprehensive		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	Dilution Factor					2	2	2	2	2
	1,1-Biphenyl	92-52-4	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	1,2,4,5-Tetrachlorobenzene	95-94-3	~	~	~	0.0974 U	0.0958 U	0.0949 U	0.0886 U	0.0899 U
	1,2,4-Trichlorobenzene	120-82-1	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	1,2-Dichlorobenzene	95-50-1	1.1	100	500	1000	0.0488 U	0.0480 U	0.0475 U	0.0444 U
	1,2-Diphenylhydrazine (as Azobenzene)	122-66-7	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	1,3-Dichlorobenzene	541-73-1	2.4	49	280	560	0.0488 U	0.0480 U	0.0475 U	0.0444 U
	1,4-Dichlorobenzene	106-46-7	1.8	13	130	250	0.0488 U	0.0480 U	0.0475 U	0.0444 U
	2,3,4,6-Tetrachlorophenol	58-90-2	~	~	~	0.0974 U	0.0958 U	0.0949 U	0.0886 U	0.0899 U
	2,4,5-Trichlorophenol	95-95-4	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	2,4,6-Trichlorophenol	88-06-2	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	2,4-Dichlorophenol	120-83-2	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	2,4-Dimethylphenol	105-67-9	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	2,4-Dinitrophenol	51-28-5	~	~	~	0.0974 U	0.0958 U	0.0949 U	0.0886 U	0.0899 U
	2,4-Dinitrotoluene	121-14-2	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	2,6-Dinitrotoluene	606-20-2	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	2-Chloronaphthalene	91-58-7	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	2-Chlorophenol	95-57-8	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	2-Methylnaphthalene	91-57-6	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	2-Methylphenol	95-48-7	0.33	100	500	1000	0.0488 U	0.0480 U	0.0475 U	0.0444 U
	2-Nitroaniline	88-74-4	~	~	~	0.0974 U	0.0958 U	0.0949 U	0.0886 U	0.0899 U
	2-Nitrophenol	88-75-5	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	3- & 4-Methylphenols	65794-96-9	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	3,3-Dichlorobenzidine	91-94-1	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	3-Nitroaniline	99-09-2	~	~	~	0.0974 U	0.0958 U	0.0949 U	0.0886 U	0.0899 U
	4,6-Dinitro-2-methylphenol	534-52-1	~	~	~	0.0974 U	0.0958 U	0.0949 U	0.0886 U	0.0899 U
	4-Bromophenyl phenyl ether	101-55-3	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	4-Chloro-3-methylphenol	59-50-7	~	~	~	0.0974 U	0.0958 U	0.0949 U	0.0886 U	0.0899 U
	4-Chloroaniline	106-47-8	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	4-Chlorophenyl phenyl ether	7005-72-3	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	4-Nitroaniline	100-01-6	~	~	~	0.0974 U	0.0958 U	0.0949 U	0.0886 U	0.0899 U
	4-Nitrophenol	100-02-7	~	~	~	0.0974 U	0.0958 U	0.0949 U	0.0886 U	0.0899 U
	Acenaphthene	83-32-9	20	100	500	1000	0.119 D	0.0480 U	0.0569 JD	0.0444 U
	Acenaphthylene	208-96-8	100	100	500	1000	0.269 D	0.0480 U	0.0475 U	0.0444 U
	Acetophenone	98-86-2	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Aniline	62-53-3	~	~	~	0.195 D	0.192 U	0.19 U	0.177 U	0.18 U
	Anthracene	120-12-7	100	100	500	1000	0.340 D	0.0480 U	0.186 D	0.0444 U
	Atrazine	1912-24-9	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Benzaldehyde	100-52-7	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Benzidine	92-87-5	~	~	~	0.195 D	0.192 U	0.19 U	0.177 U	0.18 U
	Benzo(a)anthracene	56-55-3	1	1	5.6	11	1.380 D	0.0480 U	0.454 D	0.0444 U
	Benzo(a)pyrene	50-32-8	1	1	1	1.1	1.720 D	0.0480 U	0.404 D	0.0444 U
	Benzo(b)fluoranthene	205-99-2	1	1	5.6	11	1.480 D	0.0480 U	0.366 D	0.0444 U
	Benzo(g,h,i)perylene	191-24-2	100	100	500	1000	0.976 D	0.0480 U	0.226 D	0.0444 U
	Benzo(k)fluoranthene	207-08-9	0.8	3.9	56	110	1.260 D	0.0480 U	0.314 D	0.0444 U
	Benzoic acid	65-85-0	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Benzyl alcohol	100-51-6	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Benzyl butyl phthalate	85-68-7	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Bis(2-chloroethoxy)methane	111-91-1	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Bis(2-chloroethyl)ether	111-44-4	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Bis(2-chloroisopropyl)ether	108-60-1	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Bis(2-ethylhexyl)phthalate	117-81-7	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Caprolactam	105-60-2	~	~	~	0.0974 U	0.0958 U	0.0949 U	0.0886 U	0.0899 U
	Carbazole	86-74-8	~	~	~	0.141 D	0.0480 U	0.0925 JD	0.0444 U	0.0451 U
	Chrysene	218-01-9	1	3.9	56	110	1.320 D	0.0480 U	0.417 D	0.0444 U
	Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.56	1.1	0.381 D	0.0480 U	0.088 JD	0.0444 U
	Dibenzofuran	132-64-9	7	59	350	1000	0.0520 JD	0.0480 U	0.0523 JD	0.0444 U
	Diethyl phthalate	84-66-2	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Dimethyl phthalate	131-11-3	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Di-n-butyl phthalate	84-74-2	~	~	~	0.0514 JD	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Di-n-octyl phthalate	117-84-0	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Fluoranthene	206-44-0	100	100	500	1000	2.190 D	0.0480 U	1.09 D	0.0444 U
	Fluorene	86-73-7	30	100	500	1000	0.114 D	0.0480 U	0.0683 JD	0.0444 U
	Hexachlorobenzene	118-74-1	0.33	1.2	6	12	0.0488 U	0.0480 U	0.0475 U	0.0444 U
	Hexachlorobutadiene	87-68-3	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Hexachlorocyclopentadiene	77-47-4	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Hexachloroethane	67-72-1	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	5.6	11	0.961 D	0.0480 U	0.228 D	0.0444 U
	Isochlorophene	78-59-1	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Naphthalene	91-20-3	12	100	500	1000	0.0488 U	0.0480 U	0.0475 U	0.0444 U
	Nitrobenzene	98-95-3	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	N-Nitrosodimethylamine	62-75-9	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	N-nitroso-di-n-propylamine	621-64-7	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	N-Nitrosodiphenylamine	86-30-6	~	~	~	0.0488 U	0.0480 U	0.0475 U	0.0444 U	0.0451 U
	Pentachlorophenol	87-86-5	0.8	6.7	6.7	55	0.0488 U	0.0480 U	0.0475 U	0.0444 U
	Phenanthrene	85-01-8	100	100	500	1000	1.240 D	0.0480 U	0.854 D	0.0444 U
	Phenol	108-95-2	0.33	100	500	1000	0.0488 U	0.0480 U	0.0475 U	0.0444 U
	Pyrene	129-00-0	100	100	500	1000	1.900 D	0.0480 U	0.836 D	0.0444 U

NOTES:

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NT= this indicates the analyte was not a target for this sample

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TABLE 1 (CONTINUED)  
SOIL ANALYTICAL SUMMARY  
PESTICIDES/PCBS  
27-20 42ND ROAD, LONG ISLAND CITY, NEW YORK  
FEBRUARY 2020

Sample ID						S801 (3-5)		S802 (10-12)		S803 (6-8)		S801 (12-14)		S804 (3-6)	
York ID		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Commercial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Industrial	2080564-01 2/14/2020 Soil		2080564-02 2/14/2020 Soil		2080564-03 2/14/2020 Soil		2080564-04 2/14/2020 Soil		2080564-05 2/14/2020 Soil	
Sampling Date	Compound	CAS Number				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Client Matrix															
Pesticides, 8081 target list						mg/Kg		Result		mg/Kg		Result		mg/Kg	
Dilution Factor						5		5		5					
4,4'-DDD	72-54-8	0.0033	13	92	180	0.00190	U	NT		0.00187	U	NT		0.00177	U
4,4'-DDE	72-55-9	0.0033	8.9	62	120	0.00190	U	NT		0.00187	U	NT		0.00177	U
4,4'-DDT	50-29-3	0.0033	7.9	47	94	0.00190	U	NT		0.00187	U	NT		0.00177	U
Aldrin	309-00-2	0.005	0.097	0.68	1.4	0.00190	U	NT		0.00187	U	NT		0.00177	U
alpha-BHC	319-84-6	0.02	0.48	3.4	6.8	0.00190	U	NT		0.00187	U	NT		0.00177	U
alpha-Chlordane	5103-71-9	0.094	4.2	24	47	0.00190	U	NT		0.00187	U	NT		0.00177	U
beta-BHC	319-85-7	0.036	0.36	3	14	0.00190	U	NT		0.00187	U	NT		0.00177	U
Chlordane, total	57-74-9					0.0380	U	NT		0.0374	U	NT		0.0355	U
delta-BHC	319-86-8	0.04	100	500	1000	0.00190	U	NT		0.00187	U	NT		0.00177	U
Dieldrin	60-57-1	0.005	0.2	1.4	2.8	0.00190	U	NT		0.00187	U	NT		0.00177	U
Endosulfan I	959-98-8	2.4	24	200	920	0.00190	U	NT		0.00187	U	NT		0.00177	U
Endosulfan II	33213-65-9	2.4	24	200	920	0.00190	U	NT		0.00187	U	NT		0.00177	U
Endosulfan sulfate	1031-07-8	2.4	24	200	920	0.00190	U	NT		0.00187	U	NT		0.00177	U
Endrin	72-20-8	0.014	11	89	410	0.00190	U	NT		0.00187	U	NT		0.00177	U
Endrin aldehyde	7421-93-4					0.00190	U	NT		0.00187	U	NT		0.00177	U
Endrin ketone	53494-70-5					0.00190	U	NT		0.00187	U	NT		0.00177	U
gamma-BHC (Lindane)	58-89-9	0.1	1.3	9.2	23	0.00190	U	NT		0.00187	U	NT		0.00177	U
gamma-Chlordane	5566-34-7					0.00190	U	NT		0.00187	U	NT		0.00177	U
Heptachlor	76-44-8	0.042	2.1	15	29	0.00190	U	NT		0.00187	U	NT		0.00177	U
Heptachlor epoxide	1024-57-3					0.00190	U	NT		0.00187	U	NT		0.00177	U
Methoxychlor	72-43-5					0.00951	U	NT		0.00935	U	NT		0.00887	U
Toxaphene	8001-35-2					0.0962	U	NT		0.0947	U	NT		0.0897	U
Polychlorinated Biphenyls (PCB)															
Dilution Factor						mg/Kg		1		mg/Kg				10	
Aroclor 1016	12674-11-2					0.0192	U	NT		0.0189	U	NT		0.179	U
Aroclor 1221	11104-28-2					0.0192	U	NT		0.0189	U	NT		0.179	U
Aroclor 1232	11141-16-5					0.0192	U	NT		0.0189	U	NT		0.179	U
Aroclor 1242	53469-21-9					0.0192	U	NT		0.0189	U	NT		0.179	U
Aroclor 1248	12672-29-6					0.0192	U	NT		0.0189	U	NT		0.179	U
Aroclor 1254	11097-69-1					0.0192	U	NT		0.0189	U	NT		0.179	U
Aroclor 1260	11096-82-5					0.0192	U	NT		0.0189	U	NT		3.850	DP
Total PCBs	1336-36-3	0.1	1	1	25	0.0192	U	NT		0.0189	U	NT		3.850	DP

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TABLE 1 (CONTINUED)  
SOIL ANALYTICAL SUMMARY  
METALS  
27-20 42ND ROAD, LONG ISLAND CITY, NEW YORK  
FEBRUARY 2020

Sample ID York ID Sampling Date Client Matrix		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Commercial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Industrial	S801 (3-5) 2080564-01 2/14/2020 Soil	S802 (10-12) 2080564-02 2/14/2020 Soil	S803 (6-8) 2080564-03 2/14/2020 Soil	S801 (12-14) 2080564-04 2/14/2020 Soil	S804 (3-6) 2080564-05 2/14/2020 Soil	
Compound	CAS Number					Result	Q	Result	Q	Result	Q
Metals, Target Analyte		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg	
Dilution Factor						1		1		1	
Aluminum	7429-90-5	~	~	~	~	11,400	NT	10,100	NT	12,500	
Antimony	7440-36-0	~	~	~	~	46,800	NT	2,850	U	2,700	U
Arsenic	7440-38-2	13	16	16	16	12,600	NT	4,810	NT	4,080	
Barium	7440-39-3	350	400	400	10000	496		143		106	
Beryllium	7440-41-7	7.2	72	590	2700	0.0590	U	0.0570	U	0.0540	U
Cadmium	7440-43-9	2.5	4.3	9.3	60	1.050		0.403		0.325	U
Calcium	7440-70-2	~	~	~	~	2,930	B	23,300	B	1,720	B
Chromium	7440-47-3	~	~	~	~	31,300	NT	26,600	NT	23,400	
Cobalt	7440-48-4	~	~	~	~	11,700		25,200	NT	7,300	
Copper	7440-50-8	50	270	270	10000	154		92	NT	27,100	
Iron	7439-89-6	~	~	~	~	22,900	NT	22,500	NT	17,500	
Lead	7439-92-1	63	400	1000	3900	3,510	NT	164	NT	136	
Magnesium	7439-95-4	~	~	~	~	2,490		13,000		2,420	
Manganese	7439-96-5	1600	2000	10000	10000	393		344	NT	383	
Nickel	7440-02-0	30	310	310	10000	25,700		19,400	NT	16,600	
Potassium	7440-09-7	~	~	~	~	1,080		1,230	NT	959	
Selenium	7782-49-2	3.9	180	1500	6800	2,930	U	2,850	U	2,700	U
Silver	7440-22-4	2	180	1500	6800	0.586	U	0.571	U	0.541	U
Sodium	7440-23-5	~	~	~	~	145		216	NT	78,900	
Thallium	7440-28-0	~	~	~	~	2,930	U	2,850	U	2,700	U
Vanadium	7440-62-2	~	~	~	~	38,200		79	NT	28,600	
Zinc	7440-66-6	109	10000	10000	10000	622		564	NT	96,200	
Mercury by 7473 Dilution Factor		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg	
Mercury	7439-97-6	0.18	0.81	2.8	5.7	0.995		0.0409	NT	0.137	
Chromium, Hexavalent Dilution Factor		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg	
Chromium, Hexavalent	18540-29-9	1	110	400	800	0.586	U	0.571	U	0.541	U
Chromium, Trivalent Dilution Factor		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg	
Chromium, Trivalent	16065-83-1	30	180	1500	6800	31,300		26,600	NT	23,400	

**NOTES:**

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

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J= analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U= analyte not detected at or above the level indicated

B= analyte found in the analysis batch blank

E= result is estimated and cannot be accurately reported due to levels encountered or interferences

P= this flag is used for pesticide and PCB (and/or) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis

NT= this indicates the analyte was not a target for this sample

~= this indicates that no regulatory limit has been established for this analyte

**TABLE 2**  
**GROUNDWATER ANALYTICAL SUMMARY**  
**VOLATILE ORGANIC COMPOUNDS**  
**27-20 42ND ROAD, LONG ISLAND CITY, NEW YORK**  
**FEBRUARY 2020**

Sample ID York ID Sampling Date Client Matrix		NYSDEC TOGS Standards and Guidance Values - GA	GW01 2080535-01 2/14/2020 Water	
Compound	CAS Number		Result	Q
<b>Volatiles Organics, 8260 - Comprehensive</b>		ug/L	ug/L	
<b>Dilution Factor</b>			1	
1,1,1,2-Tetrachloroethane	630-20-6	5	0.200	U
1,1,1-Trichloroethane	71-55-6	5	3.400	
1,1,2,2-Tetrachloroethane	79-34-5	5	0.200	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	5	0.200	U
1,1,2-Trichloroethane	79-00-5	1	0.200	U
1,1-Dichloroethane	75-34-3	5	2.100	
1,1-Dichloroethylene	75-35-4	5	0.840	
1,2,3-Trichlorobenzene	87-61-6	5	0.200	U
1,2,3-Trichloropropane	96-18-4	0.04	0.200	U
1,2,4-Trichlorobenzene	120-82-1	5	0.200	U
1,2,4-Trimethylbenzene	95-63-6	5	0.200	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	0.200	U
1,2-Dibromoethane	106-93-4	0.0006	0.200	U
1,2-Dichlorobenzene	95-50-1	3	0.200	U
1,2-Dichloroethane	107-06-2	0.6	0.200	U
1,2-Dichloropropane	78-87-5	1	0.200	U
1,3,5-Trimethylbenzene	108-67-8	5	0.200	U
1,3-Dichlorobenzene	541-73-1	3	0.200	U
1,4-Dichlorobenzene	106-46-7	3	0.200	U
1,4-Dioxane	123-91-1	~	40	U
2-Butanone	78-93-3	50	2	
2-Hexanone	591-78-6	50	0.200	U
4-Methyl-2-pentanone	108-10-1	~	0.240	J
Acetone	67-64-1	50	13	
Acrolein	107-02-8	~	0.200	U
Acrylonitrile	107-13-1	~	0.200	U
Benzene	71-43-2	1	0.200	U
Bromochloromethane	74-97-5	5	0.200	U
Bromodichloromethane	75-27-4	50	0.200	U
Bromoform	75-25-2	50	0.200	U
Bromomethane	74-83-9	5	0.540	
Carbon disulfide	75-15-0	~	0.520	
Carbon tetrachloride	56-23-5	5	0.200	U
Chlorobenzene	108-90-7	5	0.200	U
Chloroethane	75-00-3	5	0.200	U
Chloroform	67-66-3	7	0.200	U
Chloromethane	74-87-3	5	0.290	J
cis-1,2-Dichloroethylene	156-59-2	5	0.200	U
cis-1,3-Dichloropropylene	10061-01-5	0.4	0.200	U
Cyclohexane	110-82-7	~	0.200	U
Dibromochloromethane	124-48-1	50	0.200	U
Dibromomethane	74-95-3	~	0.200	U
Dichlorodifluoromethane	75-71-8	5	0.200	U
Ethyl Benzene	100-41-4	5	0.200	U
Hexachlorobutadiene	87-68-3	0.5	0.200	U
Isopropylbenzene	98-82-8	5	0.200	U
Methyl acetate	79-20-9	~	0.200	U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	0.200	U
Methylcyclohexane	108-87-2	~	0.200	U
Methylene chloride	75-09-2	5	1	U
n-Butylbenzene	104-51-8	5	0.200	U
n-Propylbenzene	103-65-1	5	0.200	U
o-Xylene	95-47-6	5	0.200	U
p- & m- Xylenes	179601-23-1	5	0.500	U
p-Isopropyltoluene	99-87-6	5	0.200	U
sec-Butylbenzene	135-98-8	5	0.200	U
Styrene	100-42-5	5	0.200	U
tert-Butyl alcohol (TBA)	75-65-0	~	0.500	U
tert-Butylbenzene	98-06-6	5	0.200	U
Tetrachloroethylene	127-18-4	5	0.200	U
Toluene	108-88-3	5	0.200	U
trans-1,2-Dichloroethylene	156-60-5	5	0.200	U
trans-1,3-Dichloropropylene	10061-02-6	0.4	0.200	U
trans-1,4-dichloro-2-butene	110-57-6	~	0.200	U
Trichloroethylene	79-01-6	5	0.240	J
Trichlorofluoromethane	75-69-4	5	0.200	U
Vinyl Chloride	75-01-4	2	0.200	U
Xylenes, Total	1330-20-7	5	0.600	U

**NOTES:**

Gray highlight indicates that the compound was reported as non-detect, however, the method detection limit is above the applicable standard

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B=analyte found in the analysis batch blank

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TABLE 2 (CONTINUED)  
GROUNDWATER ANALYTICAL SUMMARY  
VOLATILE ORGANIC COMPOUNDS  
27-20 42ND ROAD, LONG ISLAND CITY, NEW YORK  
FEBRUARY 2020

Sample ID York ID Sampling Date Client Matrix		NYSDEC TOGS Standards and Guidance Values - GA	GW01 20B0535-01 2/14/2020 Water	
Compound	CAS Number		Result	Q
Semi-Volatiles, 8270 - Comprehensive		ug/L	ug/L	
Dilution Factor			1	
1,1-Biphenyl	92-52-4	~	3.450	U
1,2,4,5-Tetrachlorobenzene	95-94-3	~	3.450	U
1,2,4-Trichlorobenzene	120-82-1	5	3.450	U
1,2-Dichlorobenzene	95-50-1	3	3.450	U
1,2-Diphenylhydrazine (as Azobenzene)	122-66-7	~	3.450	U
1,3-Dichlorobenzene	541-73-1	3	3.450	U
1,4-Dichlorobenzene	106-46-7	3	3.450	U
2,3,4,6-Tetrachlorophenol	58-90-2	~	3.450	U
2,4,5-Trichlorophenol	95-95-4	1	3.450	U
2,4,6-Trichlorophenol	88-06-2	1	3.450	U
2,4-Dichlorophenol	120-83-2	5	3.450	U
2,4-Dimethylphenol	105-67-9	50	3.450	U
2,4-Dinitrophenol	51-28-5	10	3.450	U
2,4-Dinitrotoluene	121-14-2	5	3.450	U
2,6-Dinitrotoluene	606-20-2	5	3.450	U
2-Chloronaphthalene	91-58-7	10	3.450	U
2-Chlorophenol	95-57-8	1	3.450	U
2-Methylnaphthalene	91-57-6	~	3.450	U
2-Methylphenol	95-48-7	1	3.450	U
2-Nitroaniline	88-74-4	5	3.450	U
2-Nitrophenol	88-75-5	1	3.450	U
3- & 4-Methylphenols	65794-96-9	~	3.450	U
3,3-Dichlorobenzidine	91-94-1	5	3.450	U
3-Nitroaniline	99-09-2	5	3.450	U
4,6-Dinitro-2-methylphenol	534-52-1	~	3.450	U
4-Bromophenyl phenyl ether	101-55-3	~	3.450	U
4-Chloro-3-methylphenol	59-50-7	1	3.450	U
4-Chloroaniline	106-47-8	5	3.450	U
4-Chlorophenyl phenyl ether	7005-72-3	~	3.450	U
4-Nitroaniline	100-01-6	5	3.450	U
4-Nitrophenol	100-02-7	1	3.450	U
Acenaphthene	83-32-9	20	0.0828	
Acenaphthylene	208-96-8	~	0.0690	U
Acetophenone	98-86-2	~	3.450	U
Aniline	62-53-3	5	3.450	U
Anthracene	120-12-7	50	0.0690	U
Atrazine	1912-24-9	~	0.690	U
Benzaldehyde	100-52-7	~	3.450	U
Benzidine	92-87-5	~	13.800	U
Benzo(a)anthracene	56-55-3	0.002	0.0690	U
Benzo(a)pyrene	50-32-8	0.002	0.0690	U
Benzo(b)fluoranthene	205-99-2	0.002	0.0690	U
Benzo(g,h,i)perylene	191-24-2	~	0.0690	U
Benzo(k)fluoranthene	207-08-9	0.002	0.0690	U
Benzoic acid	65-85-0	~	34.500	U
Benzyl alcohol	100-51-6	~	3.450	U
Benzyl butyl phthalate	85-68-7	50	3.450	U
Bis(2-chloroethoxy)methane	111-91-1	5	3.450	U
Bis(2-chloroethyl)ether	111-44-4	1	3.450	U
Bis(2-chloroisopropyl)ether	108-60-1	5	3.450	U
Bis(2-ethylhexyl)phthalate	117-81-7	5	0.690	U
Caprolactam	105-60-2	~	3.450	U
Carbazole	86-74-8	~	3.450	U
Chrysene	218-01-9	0.002	0.0690	U
Dibenzo(a,h)anthracene	53-70-3	~	0.0690	U
Dibenzofuran	132-64-9	~	3.450	U
Diethyl phthalate	84-66-2	50	4.980	J
Dimethyl phthalate	131-11-3	50	3.450	U
Di-n-butyl phthalate	84-74-2	50	3.450	U
Di-n-octyl phthalate	117-84-0	50	3.450	U
Fluoranthene	206-44-0	50	0.152	
Fluorene	86-73-7	50	0.0690	
Hexachlorobenzene	118-74-1	0.04	0.0276	U
Hexachlorobutadiene	87-68-3	0.5	0.690	U
Hexachlorocyclopentadiene	77-47-4	5	3.450	U
Hexachloroethane	67-72-1	5	0.690	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	0.0690	U
Isophorone	78-59-1	50	3.450	U
Naphthalene	91-20-3	10	0.0966	B
Nitrobenzene	98-95-3	0.4	0.345	U
N-Nitrosodimethylamine	62-75-9	~	0.690	U
N-nitroso-di-n-propylamine	621-64-7	~	3.450	U
N-Nitrosodiphenylamine	86-30-6	50	3.450	U
Pentachlorophenol	87-86-5	1	0.345	U
Phenanthrene	85-01-8	50	0.566	
Phenol	108-95-2	1	3.450	U
Pyrene	129-00-0	50	0.0966	

**NOTES:**

Gray highlight indicates that the compound was reported as non-detect, however, the method detection limit is above the applicable standard

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J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

NT=this indicates the analyte was not a target for this sample

~this indicates that no regulatory limit has been established for this analyte

**TABLE 3**  
**VAPOR ANALYTICAL SUMMARY**  
**VOLATILE ORGANIC COMPOUNDS**  
**27-20 42ND ROAD, LONG ISLAND CITY, NEW YORK**  
**FEBRUARY 2020**

Sample ID York ID Sampling Date Client Matrix		SSV01 20B0557-01 2/14/2020 Soil Vapor		SSV02 20B0557-02 2/14/2020 Soil Vapor		SSV03 20B0557-03 2/14/2020 Soil Vapor	
Compound	CAS Number	Result	Q	Result	Q	Result	Q
<b>Volatiles Organics, EPA TO15 Full List</b>		ug/m3		ug/m3		ug/m3	
<b>Dilution Factor</b>		1.717		3.588		1.809	
1,1,1,2-Tetrachloroethane	630-20-6	1.200	U	1.200	U	1.200	U
1,1,1-Trichloroethane	71-55-6	37	D	790	D	16	D
1,1,2,2-Tetrachloroethane	79-34-5	1.200	U	1.200	U	1.200	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	1.300	U	1.400	U	1.400	U
1,1,2-Trichloroethane	79-00-5	0.940	U	0.980	U	0.990	U
1,1-Dichloroethane	75-34-3	0.690	U	0.730	U	0.730	U
1,1-Dichloroethylene	75-35-4	0.170	U	0.180	U	0.180	U
1,2,4-Trichlorobenzene	120-82-1	1.300	U	1.300	U	1.300	U
1,2,4-Trimethylbenzene	95-63-6	1.100	D	2.500	D	2.400	D
1,2-Dibromoethane	106-93-4	1.300	U	1.400	U	1.400	U
1,2-Dichlorobenzene	95-50-1	1	U	1.100	U	1.100	U
1,2-Dichloroethane	107-06-2	0.690	U	0.730	U	0.730	U
1,2-Dichloropropane	78-87-5	0.790	U	0.830	U	0.840	U
1,2-Dichlorotetrafluoroethane	76-14-2	1.200	U	1.300	U	1.300	U
1,3,5-Trimethylbenzene	108-67-8	0.840	U	0.880	U	0.980	D
1,3-Butadiene	106-99-0	1.100	U	1.200	U	1.200	U
1,3-Dichlorobenzene	541-73-1	1	U	1.100	U	1.100	U
1,3-Dichloropropane	142-28-9	0.790	U	0.830	U	0.840	U
1,4-Dichlorobenzene	106-46-7	1	U	1.100	U	1.100	U
1,4-Dioxane	123-91-1	1.200	U	1.300	U	1.300	U
2-Butanone	78-93-3	3.600	D	15	D	10	D
2-Hexanone	591-78-6	1.400	U	3.700	D	1.500	U
3-Chloropropene	107-05-1	2.700	U	2.800	U	2.800	U
4-Methyl-2-pentanone	108-10-1	0.700	U	0.730	U	0.740	U
Acetone	67-64-1	22	D	410	D	120	D
Acrylonitrile	107-13-1	0.370	U	0.390	U	0.390	U
Benzene	71-43-2	0.550	U	10	D	11	D
Benzyl chloride	100-44-7	0.890	U	0.930	U	0.940	U
Bromodichloromethane	75-27-4	1.200	U	1.200	U	1.200	U
Bromoform	75-25-2	1.800	U	1.900	U	1.900	U
Bromomethane	74-83-9	0.670	U	0.700	U	0.700	U
Carbon disulfide	75-15-0	0.640	D	34	D	14	D
Carbon tetrachloride	56-23-5	0.540	D	0.280	U	1	D
Chlorobenzene	108-90-7	0.790	U	0.830	U	0.830	U
Chloroethane	75-00-3	0.450	U	0.470	U	0.480	U
Chloroform	67-66-3	0.840	U	2.100	D	21	D
Chloromethane	74-87-3	0.350	U	0.370	U	0.370	U
cis-1,2-Dichloroethylene	156-59-2	0.170	U	0.180	U	0.180	U
cis-1,3-Dichloropropylene	10061-01-5	0.780	U	0.810	U	0.820	U
Cyclohexane	110-82-7	0.590	U	0.620	U	4.100	D
Dibromochloromethane	124-48-1	1.500	U	1.500	U	1.500	U
Dichlorodifluoromethane	75-71-8	2	D	2.100	D	1.900	D
Ethyl acetate	141-78-6	1.200	U	1.300	U	1.300	U
Ethyl Benzene	100-41-4	0.750	D	2.100	D	2	D
Hexachlorobutadiene	87-68-3	1.800	U	1.900	U	1.900	U
Isopropanol	67-63-0	2.600	D	42	D	10	D
Methyl Methacrylate	80-62-6	0.700	U	0.730	U	0.740	U
Methyl tert-butyl ether (MTBE)	1634-04-4	0.620	U	0.650	U	0.650	U
Methylene chloride	75-09-2	1.200	U	1.200	U	1.300	U
n-Heptane	142-82-5	0.700	U	0.740	U	0.740	U
n-Hexane	110-54-3	0.610	U	2.900	D	2.200	D
o-Xylene	95-47-6	1	D	3	D	2.500	D
p- & m- Xylenes	179601-23-1	2.500	D	7.500	D	6.100	D
p-Ethyltoluene	622-96-8	0.840	U	1.600	D	1.400	D
Propylene	115-07-1	0.300	U	11	D	10	D
Styrene	100-42-5	1.500	D	4	D	2.900	D
Tetrachloroethylene	127-18-4	3.400	D	1.700	D	47	D
Tetrahydrofuran	109-99-9	1	U	1.100	U	1.100	U
Toluene	108-88-3	1.200	D	36	D	20	D
trans-1,2-Dichloroethylene	156-60-5	0.680	U	0.710	U	0.720	U
trans-1,3-Dichloropropylene	10061-02-6	0.780	U	0.810	U	0.820	U
Trichloroethylene	79-01-6	0.230	U	0.240	U	220	D
Trichlorofluoromethane (Freon 11)	75-69-4	1.800	D	1.800	D	2.200	D
Vinyl acetate	108-05-4	0.600	U	0.630	U	0.640	U
Vinyl bromide	593-60-2	0.750	U	0.780	U	0.790	U
Vinyl Chloride	75-01-4	0.110	U	0.110	U	0.120	U

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~=this indicates that no regulatory limit has been established for this analyte



## **APPENDIX A**





## ***GEOPHYSICAL INVESTIGATION REPORT***

### **SITE LOCATION:**

**27-20 42<sup>nd</sup> Road  
Long Island City, New York**

### **PREPARED FOR:**

**Castleton Environmental  
54 George Street  
Babylon Village, New York**

### **PREPARED BY:**

**Bradley Moore  
Delta Geophysics Inc.  
738 Front Street  
Catasauqua, PA 18032**

**February 20, 2020**

Delta Geophysics, Inc. (Delta) is pleased to provide the results of the geophysical survey conducted at 27-20 42<sup>nd</sup> Road, Long Island City, NY.

## **1.0 INTRODUCTION**

On December 14<sup>th</sup>, 2020 Delta Geophysics personnel performed a limited geophysical investigation at 27-20 42<sup>nd</sup> Road, Long Island City, New York. The area of interest was all accessible areas on the interior and exterior of the property. Particular attention was given to areas within close proximity to client proposed soil boring locations. Surface conditions consisted of asphalt and concrete. Subsurface conditions were unknown at the time of survey.

## **2.0 SCOPE OF WORK**

The survey was conducted to locate and mark detectable underground utilities throughout the interior and exterior of the property. A secondary objective was to locate any unknown subsurface anomalous features.

## **3.0 METHODOLOGY**

Selection of survey equipment is dependent site conditions and project objectives. For this project the technician utilized the following equipment to survey the area of concern:

- Geophysical Survey Systems Inc. SIR-3000 cart-mounted Ground Penetrating Radar (GPR) unit with a 400 Mhz antenna.
- Radiodetection RD7000 precision utility locator.
- Fisher M-Scope TW-6 pipe and cable locator.

Ground penetrating radar (commonly called GPR) is a geophysical method that has been developed over the past thirty years for shallow, high-resolution, subsurface investigations of the earth. GPR uses high frequency pulsed electromagnetic waves (generally 10 MHz to 1,000 MHz) to acquire subsurface information. Energy is propagated downward into the ground and is reflected back to the surface from boundaries at which there are electrical property contrasts. GPR is a method that is commonly used for environmental, engineering, archeological, and other shallow investigations.

The GSSI SIR-3000 GPR can accept a wide variety of antennas which provide various depths of penetration and levels of resolution. The 400 MHz antenna can achieve depths of penetration up to about 20 feet, but this depth may be greatly reduced due to site-specific conditions. Signal penetration decreases with increased soil conductivity. Conductive materials attenuate or absorb the GPR signal. As depth increases the return signal becomes weaker. Penetration is the greatest in unsaturated sands and fine gravels. Clayey, highly saline or saturated soils, areas covered by steel reinforced concrete, foundry slag, of other highly conductive materials significantly reduces GPR depth of penetration.

The GPR was configured to transmit to a depth of approximately 10 feet below the subsurface, but actual signal penetration was limited to approximately 1-3 feet below ground surface (bgs). The limiting factor was signal attenuation from near surface soils and reinforced concrete.

The RD7000 precision utility locator uses radio emission to trace the location of metal bearing utilities. This radio emission can be active or passive. Active tracing requires the attachment of a

radio transmitter to the utility, passive tracing uses radio emissions that are present on the utility. Underground electrical utilities typically emit radio signals that this device can detect.

The TW-6 is designed to find pipes, cables and other metallic objects such as underground storage tanks. One surveyor can carry both the transmitter and receiver together, making it ideally suited for exploration type searches of ferrous metal masses. Metal detectors of this type operate by generating a magnetic field at the transmitter which causes metallic objects in the subsurface to generate a secondary magnetic field. The induced secondary field is detected by the receiver, which generates an audible tone equal to the strength of the secondary field.

#### **4.0 SURVEY FINDINGS**

All accessible areas throughout the property were examined during this investigation. The property was examined with the RD7000 for potential subsurface utilities then surveyed with GPR and TW-6 for other potential anomalies.

##### *Metallic Anomalies*

No metallic anomalies of interest were detected on the subject property.

##### *Utility Survey*

Delta performed a utility survey across the exterior and interior of the property. The following utilities were identified: electric, water, storm sewer, sanitary sewer, and natural gas. All utilities were marked onsite with appropriate colors.

Site map (022020) is included with all located subsurface features.

#### **5.0 SURVEY LIMITATIONS**

GPR depth of penetration was limited to approximately 1-3 feet bgs on the exterior of the property and 0-1 feet bgs on the interior of the property. The limiting factor was due to conductive soils and reinforced concrete.

#### **6.0 WARRANTIES AND DISCLAIMER**

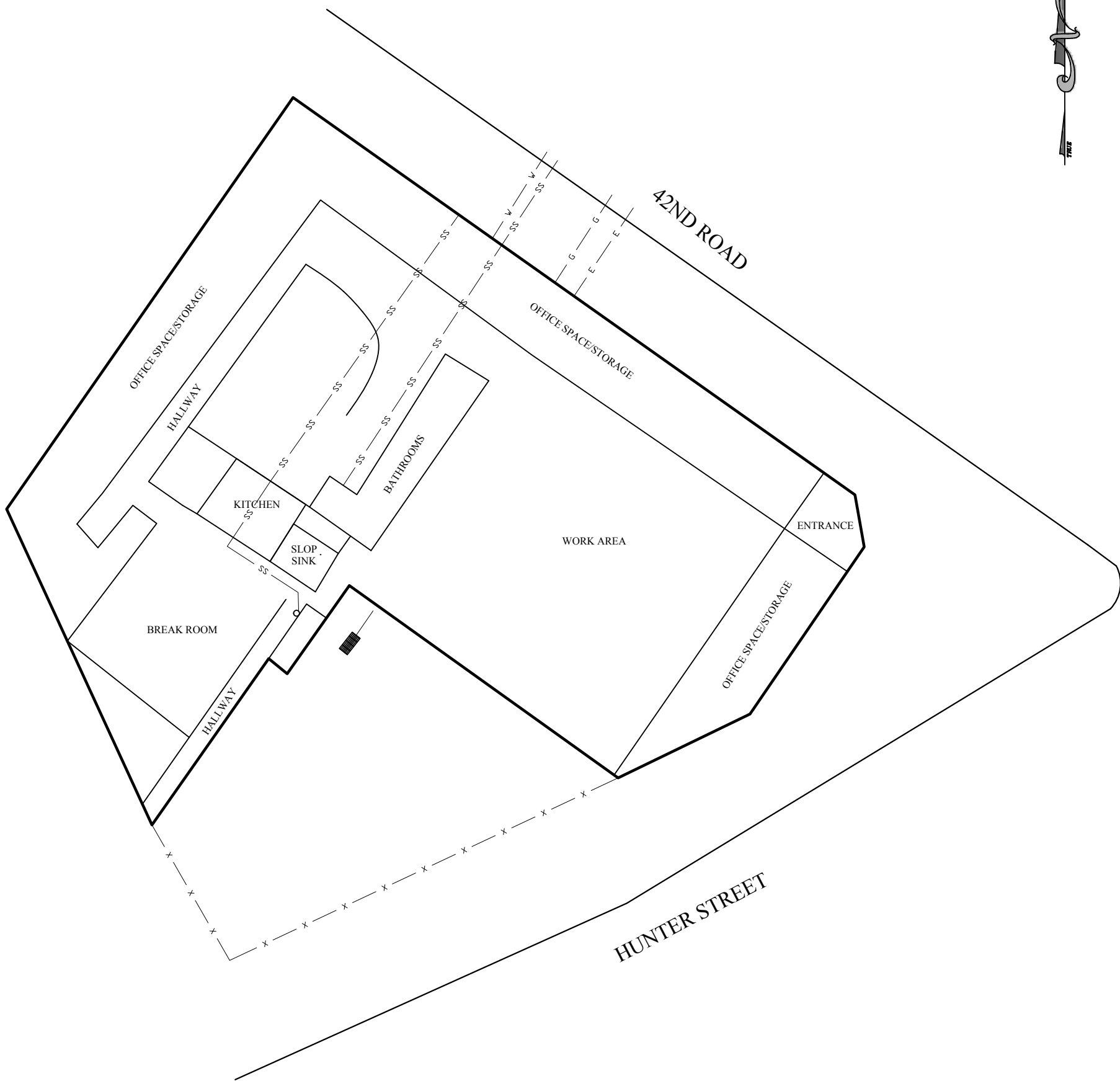
As with any geophysical method, it must be stressed that caution be used during any excavation or intrusive testing in proximity to any anomalies indicated in this report. In addition, the absence of detected signatures does not preclude the possibility that targets may exist. To the extent the client desires more definitive conclusions than are warranted by the currently available facts; it is specifically Delta's intent that the conclusions stated herein will be intended as guidance.

This report is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based on the facts currently available within the limit or scope of work, budget and schedule. Delta represents that the services were performed in a manner consistent with currently accepted professional practices employed by geophysical/geological consultants under similar circumstances. No other representations to Client, express or implied, and no warranty or guarantee is included or intended in this agreement, or in any report, document, or otherwise.

This report was prepared pursuant to the contract Delta has with the Client. That contractual relationship included an exchange of information about the property that was unique and between

Delta and its client and serves as the basis upon which this report was prepared. Because of the importance of the understandings between Delta and its client, reliance or any use of this report by anyone other than the Client, for whom it was prepared, is prohibited and therefore not foreseeable to Delta.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to Delta's contract with the Client. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

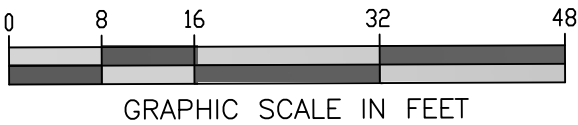


NOTES:

This site plan was produced from data positioned by differential GPS measurements collected in the field. Due to the errors normally present in DGPS data, this document is not intended or represented to be of survey precision. Caution should be used in all field measurements based on this site plan.

As with any geophysical method, it must be stressed that caution be used during any excavation or intrusive testing in proximity of any anomalies indicated in this document. The absence of detected signatures does not preclude the possibility that targets exist. The geophysical data and results presented in this site plan are based upon the application of scientific principles and professional judgements to certain facts with resultant subjective interpretations. Professional judgements expressed herein are based on the facts currently available within the limits of the existing data, scope of work, budget, and schedule.

Reliance on use by any such third party without explicit authorization in the document does not make said third party a third party beneficiary to Delta's contract with the client. Any such unauthorized reliance on or use of this document, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this document, are made to any such third party.



LEGEND

- STORM DRAIN
- UTILITY VALVE COVER
- ELECTRIC
- GAS
- STORM SEWER
- SANITARY SEWER
- WATER
- FENCE

DATE	02/20/20
SCALE	1" = 16'
DWG NO.	D022020
SHT NO.	1 OF 1
PROJECT.	

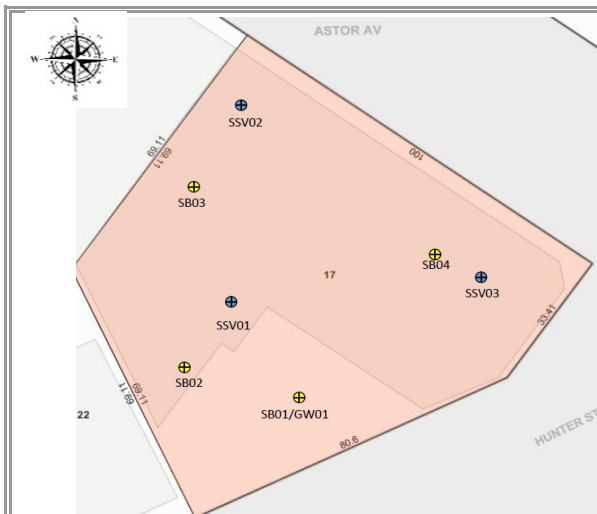
GEOPHYSICAL INVESTIGATION  
27-20 42ND ROAD, LONG ISLAND CITY, NEW YORK  
FOR  
CASTLETON ENVIRONMENTAL

**DELTA Geophysics Inc.**

738 Front Street, Catasauqua, PA 18032  
Phone: (610) 231-73012



## **APPENDIX B**

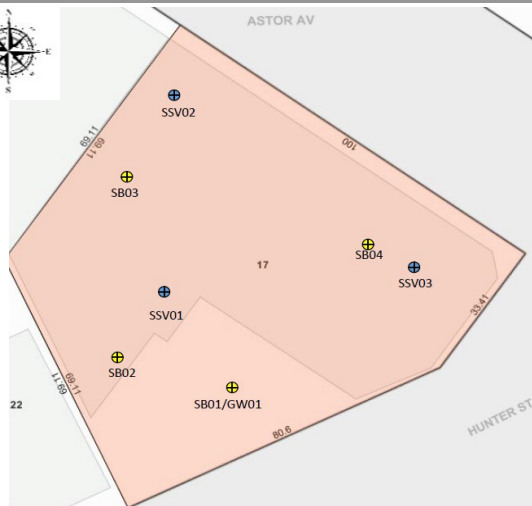


Locations are approximate

Boring # <b>SB01</b>	MW#	Page 1	of 1
PROJECT: 27-20 42nd Road, Long Island City, New York			
JOB # ZLLC2001			
LOGGED BY:	JF	PRJ. MNGR.:	JF
DRILLING CONTRACTOR: Coastal Environmental			
DRILL METHOD: Geoprobe 54LT			
DRILLER: T. Fitzpatrick			
Borehole diameter/drill bit type:		total depth	<b>15.5 feet</b>
<b>Macrocore (2" diameter)</b>		elevation	<b>NA</b>
<b>HAMMER WT: NA</b>		DROP: NA	
START TIME: 09:30		DATE: 2/14/2020	
COMPLETION TIME: 10:00		DATE: 2/14/2020	
BACKFILL TIME: 14:45		DATE: 2/14/2020	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: NA Screen depth: NA
0-4 ft	4	3	Asphalt Brown Silty Fine SAND some gravel/brick (fill)	PID = 0.0 ppm.	
4-8 ft	4	2	Brown Silty Fine SAND (fill) Orange Brown Silty and Clayey fine SAND	PID = 0.0 ppm.	
8-12 ft	4	2	Orange Brown Silty and Clayey fine SAND	PID = 0.0 ppm.G	
12-15.5 ft	3.5	2	Orange Brown Silty and Clayey fine SAND	PID = 0.0 ppm. Groundwater encountered at 14 feet below grade. Refusal at 15.5 feet below grade.	

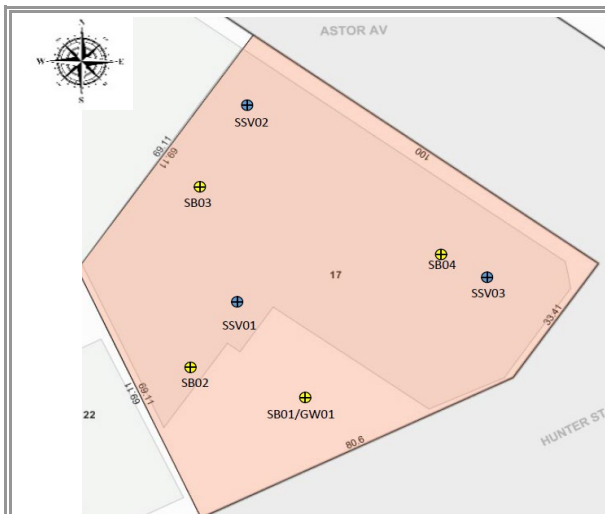
END OF BORING



Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth:	NA
					Screen depth:	NA
0-3 ft	3	1	Concrete Brown Silty Fine SAND some gravel/brick (fill)	PID = 0.0 ppm.		
3-6 ft	3	1	Orange Brown Silty and Clayey fine SAND	PID = 0.0 ppm.		
6-9 ft	3	1.5	Orange Brown Silty and Clayey fine SAND	PID = 0.0 ppm.		
9-12 ft	3	3	Orange Brown Silty and Clayey fine SAND	PID = 0.0 ppm.		

END OF BORING



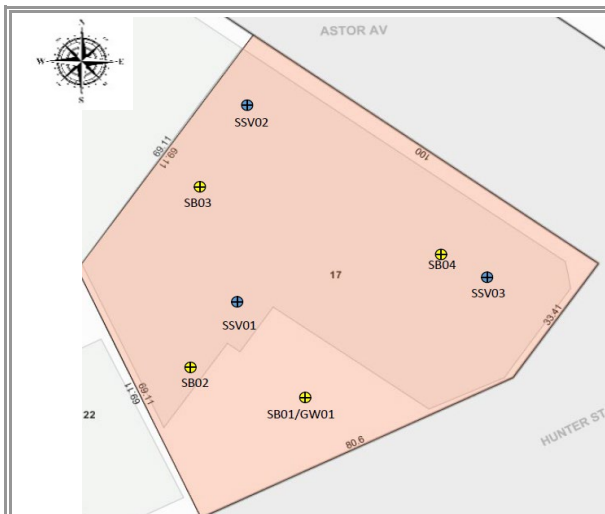


Locations are approximate

Boring # <b>SB03</b>	MW#	Page 1	of 1
PROJECT: 27-20 42nd Road, Long Island City, New York			
JOB # ZLLC2001			
LOGGED BY:	JF	PRJ. MNGR.:	JF
DRILLING CONTRACTOR: Coastal Environmental			
DRILL METHOD: Geoprobe 420			
DRILLER: T. Fitzpatrick			
Borehole diameter/drill bit type:		total depth	<b>14.5 feet</b>
<b>Macrocore (2" diameter)</b>		elevation	<b>NA</b>
<b>HAMMER WT: NA</b>		DROP: NA	
START TIME: 12:15		DATE: 2/14/2020	
COMPLETION TIME: 13:40		DATE: 2/14/2020	
BACKFILL TIME: 14:45		DATE: 2/14/2020	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: NA Screen depth: NA
0-3 ft	3	3	Concrete Brown Silty Fine SAND some gravel/brick (fill)	PID = 0.0 ppm.	
3-6 ft	3	3	Brown Silty Fine SAND some gravel/brick (fill)	PID = 0.0 ppm.	
6-9 ft	3	3	Light Brown Clayey SILT	PID = 0.0 ppm.	
9-12 ft	3	3	Light Brown Clayey SILT	PID = 0.0 ppm.	
12-14.5 ft	2.5	2.5	Light Brown Clayey SILT	PID = 0.0 ppm. Groundwater encountered at 13 feet below grade. Refusal at 14.5 feet below grade.	

END OF BORING



Boring # <b>SB04</b>	MW#	Page 1	of 1
PROJECT: 27-20 42nd Road, Long Island City, New York			
JOB # ZLLC2001			
LOGGED BY:	JF	PRJ. MNGR.:	JF
DRILLING CONTRACTOR: Coastal Environmental			
DRILL METHOD: Geoprobe 420			
DRILLER: T. Fitzpatrick			
Borehole diameter/drill bit type:		total depth	<b>14 feet</b>
<b>Macrocore (2" diameter)</b>		elevation	<b>NA</b>
<b>HAMMER WT: NA</b>		DROP: NA	
START TIME: 13:50		DATE: 2/14/2020	
COMPLETION TIME: 14:30		DATE: 2/14/2020	
BACKFILL TIME: 14:45		DATE: 2/14/2020	

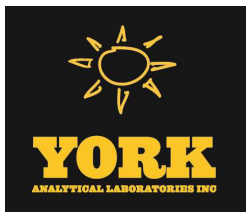
Locations are approximate

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: NA Screen depth: NA
0-3 ft	3	3	Concrete Brick/Concrete	PID = 0.0 ppm.	
3-6 ft	3	3	Brown Silty Fine SAND some gravel/brick (fill)	PID = 0.0 ppm.	
6-9 ft	3	3	Light Brown Clayey SILT	PID = 0.0 ppm.	
9-12 ft	3	3	Light Brown Clayey SILT	PID = 0.0 ppm.	
12-14 ft	2	2	Light Brown Clayey SILT	PID = 0.0 ppm. Groundwater encountered at 13 feet below grade. Refusal at 14 feet below grade.	

END OF BORING



## **APPENDIX C**



# Technical Report

prepared for:

**Castleton Environmental**

54 George Street

Babylon NY, 11702

**Attention: Jessica Ferngren**

Report Date: 02/24/2020

**Client Project ID: ZLLC2001**

York Project (SDG) No.: 20B0564

Revision No. 1.0

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE  
www.YORKLAB.com

STRATFORD, CT 06615  
(203) 325-1371

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

RICHMOND HILL, NY 11418  
ClientServices@yorklab.com

Report Date: 02/24/2020  
Client Project ID: ZLLC2001  
York Project (SDG) No.: 20B0564

**Castleton Environmental**  
54 George Street  
Babylon NY, 11702  
Attention: Jessica Ferngren

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## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 14, 2020 with a temperature of 2.8 C. The project was identified as your project: **ZLLC2001**.

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

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

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

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


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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20B0564-01	SB01 (3-5)	Soil	02/14/2020	02/14/2020
20B0564-02	SB02 (10-12)	Soil	02/14/2020	02/14/2020
20B0564-03	SB03 (6-8)	Soil	02/14/2020	02/14/2020
20B0564-04	SB01 (12-14)	Soil	02/14/2020	02/14/2020
20B0564-05	SB04 (3-6)	Soil	02/14/2020	02/14/2020

## **General Notes for York Project (SDG) No.: 20B0564**

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

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 02/24/2020





## Sample Information

**Client Sample ID:** SB01 (3-5)

**York Sample ID:** 20B0564-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

20B0564

ZLLC2001

Soil

February 14, 2020 10:00 am

02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 11:51	AB
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/24/2020 07:30	02/24/2020 11:51	AB
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 11:51	AB
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
123-91-1	1,4-Dioxane	ND		ug/kg dry	63	130	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 11:51	AB



## Sample Information

**Client Sample ID:** SB01 (3-5)

**York Sample ID:** 20B0564-01

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:00 am

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
591-78-6	2-Hexanone	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
67-64-1	Acetone	ND		ug/kg dry	6.3	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
107-02-8	Acrolein	ND		ug/kg dry	6.3	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
107-13-1	Acrylonitrile	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
71-43-2	Benzene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
74-97-5	Bromochloromethane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	02/24/2020 07:30	02/24/2020 11:51	AB
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
75-25-2	Bromoform	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
74-83-9	Bromomethane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
75-15-0	Carbon disulfide	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
108-90-7	Chlorobenzene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
75-00-3	Chloroethane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
67-66-3	Chloroform	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
74-87-3	Chloromethane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
110-82-7	Cyclohexane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	02/24/2020 07:30	02/24/2020 11:51	AB
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	02/24/2020 07:30	02/24/2020 11:51	AB





## Sample Information

**Client Sample ID:** SB01 (3-5)

**York Sample ID:** 20B0564-01

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:00 am

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	02/24/2020 07:30	02/24/2020 11:51	AB
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	02/24/2020 07:30	02/24/2020 11:51	AB
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	02/24/2020 07:30	02/24/2020 11:51	AB
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
79-20-9	Methyl acetate	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	02/24/2020 07:30	02/24/2020 11:51	AB
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	02/24/2020 07:30	02/24/2020 11:51	AB
75-09-2	Methylene chloride	ND		ug/kg dry	6.3	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
95-47-6	o-Xylene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	02/24/2020 07:30	02/24/2020 11:51	AB
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.3	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	02/24/2020 07:30	02/24/2020 11:51	AB
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
100-42-5	Styrene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.1	31	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	02/24/2020 07:30	02/24/2020 11:51	AB
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
108-88-3	Toluene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB



## Sample Information

**Client Sample ID:** SB01 (3-5)

**York Sample ID:** 20B0564-01

**York Project (SDG) No.**  
20B0564

**Client Project ID**  
ZLLC2001

**Matrix**  
Soil

**Collection Date/Time**  
February 14, 2020 10:00 am

**Date Received**  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH	02/24/2020 07:30	02/24/2020 11:51	AB
79-01-6	Trichloroethylene	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.1	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.4	19	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 11:51	AB
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	99.0 %		77-125							
2037-26-5	Surrogate: SURR: Toluene-d8	103 %		85-120							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	106 %		76-130							

### Semi-Volatiles, 8270 - Comprehensive

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	97.4	195	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	97.4	195	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH



## Sample Information

**Client Sample ID:** SB01 (3-5)

**York Sample ID:** 20B0564-01

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:00 am

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	97.4	195	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	97.4	195	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	97.4	195	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	97.4	195	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	97.4	195	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	97.4	195	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH



## Sample Information

**Client Sample ID:** SB01 (3-5)

**York Sample ID:** 20B0564-01

York Project (SDG) No.  
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Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:00 am

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	119		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
208-96-8	Acenaphthylene	269		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
98-86-2	Acetophenone	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
62-53-3	Aniline	ND		ug/kg dry	195	390	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
120-12-7	Anthracene	340		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
1912-24-9	Atrazine	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
92-87-5	Benzidine	ND		ug/kg dry	195	390	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
56-55-3	Benzo(a)anthracene	1380		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
50-32-8	Benzo(a)pyrene	1720		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
205-99-2	Benzo(b)fluoranthene	1480		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
191-24-2	Benzo(g,h,i)perylene	978		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
207-08-9	Benzo(k)fluoranthene	1260		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
65-85-0	Benzoic acid	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
105-60-2	Caprolactam	ND		ug/kg dry	97.4	195	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
86-74-8	Carbazole	141		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH



## Sample Information

**Client Sample ID:** SB01 (3-5)

**York Sample ID:** 20B0564-01

York Project (SDG) No.  
20B0564

Client Project ID  
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Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:00 am

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	1320		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
53-70-3	Dibenzo(a,h)anthracene	381		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
132-64-9	Dibenzofuran	52.9	J	ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
84-74-2	Di-n-butyl phthalate	51.4	J	ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
206-44-0	Fluoranthene	2190		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
86-73-7	Fluorene	114		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
193-39-5	Indeno(1,2,3-cd)pyrene	961		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
78-59-1	Isophorone	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
91-20-3	Naphthalene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
85-01-8	Phenanthrene	1240		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH



## Sample Information

**Client Sample ID:** SB01 (3-5)

**York Sample ID:** 20B0564-01

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:00 am

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
129-00-0	Pyrene	1900		ug/kg dry	48.8	97.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 19:51	KH
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
367-12-4	Surrogate: SURR: 2-Fluorophenol	60.0 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	62.5 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	77.5 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	66.4 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	90.3 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	68.2 %			24-116						

### Pesticides, 8081 target list

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
309-00-2	Aldrin	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	02/20/2020 07:28	02/21/2020 10:25	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
57-74-9	Chlordane, total	ND		ug/kg dry	38.0	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	02/20/2020 07:28	02/21/2020 10:25	CM



## Sample Information

**Client Sample ID:** SB01 (3-5)

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ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:00 am

Date Received  
02/14/2020

### Pesticides, 8081 target list

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
72-20-8	Endrin	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	02/20/2020 07:28	02/21/2020 10:25	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.51	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
8001-35-2	Toxaphene	ND		ug/kg dry	96.2	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:25	CM
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>						
2051-24-3	Surrogate: Decachlorobiphenyl	68.3 %								
877-09-8	Surrogate: Tetrachloro-m-xylene	29.4 %	S-GC							

### Polychlorinated Biphenyls (PCB)

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/20/2020 21:27	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/20/2020 21:27	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/20/2020 21:27	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/20/2020 21:27	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/20/2020 21:27	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/20/2020 21:27	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/20/2020 21:27	SR





## Sample Information

**Client Sample ID:** SB01 (3-5)

**York Sample ID:** 20B0564-01

**York Project (SDG) No.**  
20B0564

**Client Project ID**  
ZLLC2001

**Matrix**  
Soil

**Collection Date/Time**  
February 14, 2020 10:00 am

**Date Received**  
02/14/2020

### Polychlorinated Biphenyls (PCB)

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications:	02/20/2020 07:28	02/20/2020 21:27	SR
Surrogate Recoveries		Result		Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	68.5 %		30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	64.0 %		30-140						

### Metals, Target Analyte

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	11400		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7440-36-0	Antimony	46.8		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7440-38-2	Arsenic	12.6		mg/kg dry	1.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7440-39-3	Barium	496		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.059	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7440-43-9	Cadmium	1.05		mg/kg dry	0.351	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7440-70-2	Calcium	2930	B	mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7440-47-3	Chromium	31.3		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7440-48-4	Cobalt	11.7		mg/kg dry	0.469	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7440-50-8	Copper	154		mg/kg dry	2.34	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7439-89-6	Iron	22900		mg/kg dry	29.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7439-92-1	Lead	3510		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7439-95-4	Magnesium	2490		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7439-96-5	Manganese	393		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7440-02-0	Nickel	25.7		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7440-09-7	Potassium	1080		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7782-49-2	Selenium	ND		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML





## Sample Information

**Client Sample ID:** SB01 (3-5)

**York Sample ID:** 20B0564-01

**York Project (SDG) No.**  
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**Client Project ID**  
ZLLC2001

**Matrix**  
Soil

**Collection Date/Time**  
February 14, 2020 10:00 am

**Date Received**  
02/14/2020

### Metals, Target Analyte

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7440-23-5	Sodium	145		mg/kg dry	58.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7440-28-0	Thallium	ND		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7440-62-2	Vanadium	38.2		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML
7440-66-6	Zinc	622		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:43	KML

### Mercury by 7473

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.995		mg/kg dry	0.0351	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	02/19/2020 17:19	02/19/2020 20:50	MAO

### Chromium, Hexavalent

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.586	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	02/18/2020 08:24	02/18/2020 16:20	JAG

### Chromium, Trivalent

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	31.3		mg/kg	0.500	1	Calculation Certifications:	02/19/2020 14:58	02/19/2020 14:59	TJM

### Total Solids

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	85.4		%	0.100	1	SM 2540G Certifications: CTDOH	02/18/2020 15:16	02/19/2020 09:21	TJM



## Sample Information

**Client Sample ID:** SB02 (10-12)

**York Sample ID:** 20B0564-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20B0564

ZLLC2001

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February 14, 2020 10:50 am

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### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 07:30	02/19/2020 00:59	AB
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/18/2020 07:30	02/19/2020 00:59	AB
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 07:30	02/19/2020 00:59	AB
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
123-91-1	1,4-Dioxane	ND		ug/kg dry	57	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 07:30	02/19/2020 00:59	AB
78-93-3	2-Butanone	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB



## Sample Information

**Client Sample ID:** SB02 (10-12)

**York Sample ID:** 20B0564-02

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:50 am

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
67-64-1	Acetone	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
107-02-8	Acrolein	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
107-13-1	Acrylonitrile	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
71-43-2	Benzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
74-97-5	Bromochloromethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 07:30	02/19/2020 00:59	AB
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
75-25-2	Bromoform	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
74-83-9	Bromomethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
75-15-0	Carbon disulfide	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
75-00-3	Chloroethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
74-87-3	Chloromethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
110-82-7	Cyclohexane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 07:30	02/19/2020 00:59	AB
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 07:30	02/19/2020 00:59	AB
74-95-3	Dibromomethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 07:30	02/19/2020 00:59	AB



## Sample Information

**Client Sample ID:** SB02 (10-12)

**York Sample ID:** 20B0564-02

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:50 am

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 07:30	02/19/2020 00:59	AB
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 07:30	02/19/2020 00:59	AB
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
79-20-9	Methyl acetate	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 07:30	02/19/2020 00:59	AB
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 07:30	02/19/2020 00:59	AB
75-09-2	<b>Methylene chloride</b>	<b>18</b>	CCV-E	ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	02/18/2020 07:30	02/19/2020 00:59	AB
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	02/18/2020 07:30	02/19/2020 00:59	AB
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
100-42-5	Styrene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 07:30	02/19/2020 00:59	AB
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
108-88-3	Toluene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB



## Sample Information

**Client Sample ID:** SB02 (10-12)

**York Sample ID:** 20B0564-02

**York Project (SDG) No.**  
20B0564

**Client Project ID**  
ZLLC2001

**Matrix**  
Soil

**Collection Date/Time**  
February 14, 2020 10:50 am

**Date Received**  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH	02/18/2020 07:30	02/19/2020 00:59	AB
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.5	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 07:30	02/19/2020 00:59	AB
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	92.2 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	90.8 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	98.7 %			76-130						

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	95.8	191	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	95.8	191	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH



## Sample Information

**Client Sample ID:** SB02 (10-12)

**York Sample ID:** 20B0564-02

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:50 am

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	95.8	191	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	95.8	191	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	95.8	191	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	95.8	191	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	95.8	191	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	95.8	191	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
83-32-9	Acenaphthene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH



## Sample Information

**Client Sample ID:** SB02 (10-12)

**York Sample ID:** 20B0564-02

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:50 am

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
208-96-8	Acenaphthylene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
98-86-2	Acetophenone	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
62-53-3	Aniline	ND		ug/kg dry	192	384	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
120-12-7	Anthracene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
1912-24-9	Atrazine	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
92-87-5	Benzidine	ND		ug/kg dry	192	384	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
65-85-0	Benzoic acid	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
105-60-2	Caprolactam	ND		ug/kg dry	95.8	191	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
86-74-8	Carbazole	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH





## Sample Information

**Client Sample ID:** SB02 (10-12)

**York Sample ID:** 20B0564-02

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:50 am

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
206-44-0	Fluoranthene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
86-73-7	Fluorene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
78-59-1	Isophorone	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
91-20-3	Naphthalene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH





## Sample Information

**Client Sample ID:** SB02 (10-12)

**York Sample ID:** 20B0564-02

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:50 am

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
108-95-2	Phenol	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
129-00-0	Pyrene	ND		ug/kg dry	48.0	95.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:01	KH
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
367-12-4	Surrogate: SURR: 2-Fluorophenol	71.0 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	71.8 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	81.0 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	72.2 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	97.8 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	86.2 %			24-116						

### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	86.2		%	0.100	1	SM 2540G Certifications: CTDOH	02/18/2020 15:16	02/19/2020 09:21	TJM

## Sample Information

**Client Sample ID:** SB03 (6-8)

**York Sample ID:** 20B0564-03

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 1:40 pm

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB



## Sample Information

**Client Sample ID:** SB03 (6-8)

**York Sample ID:** 20B0564-03

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 1:40 pm

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:17	AB
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/24/2020 07:30	02/24/2020 12:17	AB
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:17	AB
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
123-91-1	1,4-Dioxane	ND		ug/kg dry	50	99	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:17	AB
78-93-3	2-Butanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
591-78-6	2-Hexanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
67-64-1	Acetone	ND		ug/kg dry	5.0	9.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB



## Sample Information

**Client Sample ID:** SB03 (6-8)

**York Sample ID:** 20B0564-03

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 1:40 pm

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND		ug/kg dry	5.0	9.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
107-13-1	Acrylonitrile	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
71-43-2	Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
74-97-5	Bromochloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:17	AB
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
75-25-2	Bromoform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
74-83-9	Bromomethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
75-15-0	Carbon disulfide	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
108-90-7	Chlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
75-00-3	Chloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
67-66-3	Chloroform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
74-87-3	Chloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
110-82-7	Cyclohexane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:17	AB
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:17	AB
74-95-3	Dibromomethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:17	AB
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:17	AB
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:17	AB



## Sample Information

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Soil

Collection Date/Time  
February 14, 2020 1:40 pm

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
79-20-9	Methyl acetate	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:17	AB
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:17	AB
75-09-2	Methylene chloride	ND		ug/kg dry	5.0	9.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
95-47-6	o-Xylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	02/24/2020 07:30	02/24/2020 12:17	AB
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.0	9.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	02/24/2020 07:30	02/24/2020 12:17	AB
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
100-42-5	Styrene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.5	25	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:17	AB
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
108-88-3	Toluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH	02/24/2020 07:30	02/24/2020 12:17	AB
79-01-6	Trichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB



## Sample Information

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York Project (SDG) No.  
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Soil

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February 14, 2020 1:40 pm

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02/14/2020

### Volatile Organics, 8260 - Comprehensive

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.4	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:17	AB
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	98.5 %									
2037-26-5	Surrogate: SURR: Toluene-d8	96.6 %									
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	98.9 %									

### Semi-Volatiles, 8270 - Comprehensive

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	94.9	190	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	94.9	190	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	94.9	190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH



## Sample Information

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February 14, 2020 1:40 pm

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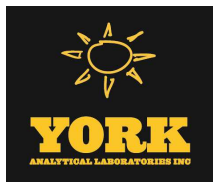
### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	94.9	190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	94.9	190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	94.9	190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	94.9	190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	94.9	190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
83-32-9	Acenaphthene	69.0	J	ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
98-86-2	Acetophenone	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
62-53-3	Aniline	ND		ug/kg dry	190	380	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
120-12-7	Anthracene	186		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH



## Sample Information

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York Project (SDG) No.

20B0564

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Soil

Collection Date/Time

February 14, 2020 1:40 pm

Date Received

02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1912-24-9	Atrazine	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
92-87-5	Benzidine	ND		ug/kg dry	190	380	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
56-55-3	<b>Benzo(a)anthracene</b>	<b>454</b>		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
50-32-8	<b>Benzo(a)pyrene</b>	<b>404</b>		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>366</b>		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>226</b>		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
207-08-9	<b>Benzo(k)fluoranthene</b>	<b>314</b>		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
65-85-0	Benzoic acid	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
85-68-7	<b>Benzyl butyl phthalate</b>	<b>133</b>		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
105-60-2	Caprolactam	ND		ug/kg dry	94.9	190	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
86-74-8	<b>Carbazole</b>	<b>92.5</b>	J	ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
218-01-9	<b>Chrysene</b>	<b>417</b>		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
53-70-3	<b>Dibenzo(a,h)anthracene</b>	<b>88.0</b>	J	ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
132-64-9	<b>Dibenzofuran</b>	<b>52.3</b>	J	ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH





## Sample Information

**Client Sample ID:** SB03 (6-8)

**York Sample ID:** 20B0564-03

York Project (SDG) No.

Client Project ID

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20B0564

ZLLC2001

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February 14, 2020 1:40 pm

02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
206-44-0	<b>Fluoranthene</b>	<b>1090</b>		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
86-73-7	<b>Fluorene</b>	<b>68.3</b>	J	ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>228</b>		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
78-59-1	Isophorone	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
91-20-3	Naphthalene	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
85-01-8	<b>Phenanthrene</b>	<b>854</b>		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
108-95-2	Phenol	ND		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
129-00-0	<b>Pyrene</b>	<b>836</b>		ug/kg dry	47.5	94.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:20	KH
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
367-12-4	Surrogate: SURR: 2-Fluorophenol	62.0 %	20-108								
4165-62-2	Surrogate: SURR: Phenol-d5	62.9 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	80.2 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	66.4 %	21-113								





## Sample Information

**Client Sample ID:** SB03 (6-8)

**York Sample ID:** 20B0564-03

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

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Soil

Collection Date/Time  
February 14, 2020 1:40 pm

Date Received  
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### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	95.9 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	74.1 %			24-116						

### Pesticides, 8081 target list

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
309-00-2	Aldrin	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	02/20/2020 07:28	02/21/2020 10:43	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
57-74-9	Chlordane, total	ND		ug/kg dry	37.4	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	02/20/2020 07:28	02/21/2020 10:43	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
72-20-8	Endrin	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM



## Sample Information

**Client Sample ID:** SB03 (6-8)

**York Sample ID:** 20B0564-03

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

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Soil

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February 14, 2020 1:40 pm

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### Pesticides, 8081 target list

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	02/20/2020 07:28	02/21/2020 10:43	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.35	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
8001-35-2	Toxaphene	ND		ug/kg dry	94.7	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 10:43	CM
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>						
2051-24-3	Surrogate: Decachlorobiphenyl	63.5 %		30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	51.9 %		30-150						

### Polychlorinated Biphenyls (PCB)

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/20/2020 21:41	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/20/2020 21:41	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/20/2020 21:41	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/20/2020 21:41	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/20/2020 21:41	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/20/2020 21:41	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/20/2020 21:41	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications:	02/20/2020 07:28	02/20/2020 21:41	SR
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>						
877-09-8	Surrogate: Tetrachloro-m-xylene	73.5 %		30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	59.0 %		30-140						



## Sample Information

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**Matrix**  
Soil

**Collection Date/Time**  
February 14, 2020 1:40 pm

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### Metals, Target Analyte

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	10100		mg/kg dry	5.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7440-36-0	Antimony	ND		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7440-38-2	Arsenic	4.81		mg/kg dry	1.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7440-39-3	Barium	143		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.057	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7440-43-9	Cadmium	0.403		mg/kg dry	0.342	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7440-70-2	Calcium	23300	B	mg/kg dry	5.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7440-47-3	Chromium	26.6		mg/kg dry	0.571	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7440-48-4	Cobalt	25.2		mg/kg dry	0.457	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7440-50-8	Copper	92.0		mg/kg dry	2.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7439-89-6	Iron	22500		mg/kg dry	28.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7439-92-1	Lead	164		mg/kg dry	0.571	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7439-95-4	Magnesium	13000		mg/kg dry	5.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7439-96-5	Manganese	344		mg/kg dry	0.571	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7440-02-0	Nickel	19.4		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7440-09-7	Potassium	1230		mg/kg dry	5.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7782-49-2	Selenium	ND		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7440-22-4	Silver	ND		mg/kg dry	0.571	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7440-23-5	Sodium	216		mg/kg dry	57.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7440-28-0	Thallium	ND		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7440-62-2	Vanadium	29.0		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML
7440-66-6	Zinc	564		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:46	KML



## Sample Information

**Client Sample ID:** SB03 (6-8)

**York Sample ID:** 20B0564-03

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 1:40 pm

Date Received  
02/14/2020

### Mercury by 7473

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0409		mg/kg dry	0.0342	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	02/19/2020 17:19	02/19/2020 20:59	MAO

### Chromium, Hexavalent

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.571	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	02/18/2020 08:24	02/18/2020 16:20	JAG

### Chromium, Trivalent

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	26.6		mg/kg	0.500	1	Calculation Certifications:	02/19/2020 14:58	02/19/2020 14:59	TJM

### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.6		%	0.100	1	SM 2540G Certifications: CTDOH	02/18/2020 15:16	02/19/2020 09:21	TJM

## Sample Information

**Client Sample ID:** SB01 (12-14)

**York Sample ID:** 20B0564-04

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:05 am

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB



## Sample Information

**Client Sample ID:** SB01 (12-14)

**York Sample ID:** 20B0564-04

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:05 am

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 12:30	02/19/2020 01:27	AB
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/18/2020 12:30	02/19/2020 01:27	AB
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 12:30	02/19/2020 01:27	AB
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
123-91-1	1,4-Dioxane	ND		ug/kg dry	48	96	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 12:30	02/19/2020 01:27	AB
78-93-3	2-Butanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
591-78-6	2-Hexanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB



## Sample Information

**Client Sample ID:** SB01 (12-14)

**York Sample ID:** 20B0564-04

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:05 am

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/kg dry	4.8	9.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
107-02-8	Acrolein	ND		ug/kg dry	4.8	9.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
107-13-1	Acrylonitrile	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
71-43-2	Benzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
74-97-5	Bromochloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 12:30	02/19/2020 01:27	AB
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
75-25-2	Bromoform	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
74-83-9	Bromomethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
75-15-0	Carbon disulfide	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
108-90-7	Chlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
75-00-3	Chloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
67-66-3	Chloroform	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
74-87-3	Chloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
110-82-7	Cyclohexane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 12:30	02/19/2020 01:27	AB
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 12:30	02/19/2020 01:27	AB
74-95-3	Dibromomethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 12:30	02/19/2020 01:27	AB
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 12:30	02/19/2020 01:27	AB
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB



## Sample Information

**Client Sample ID:** SB01 (12-14)

**York Sample ID:** 20B0564-04

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:05 am

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 12:30	02/19/2020 01:27	AB
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
79-20-9	Methyl acetate	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 12:30	02/19/2020 01:27	AB
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 12:30	02/19/2020 01:27	AB
75-09-2	<b>Methylene chloride</b>	<b>13</b>	CCV-E	ug/kg dry	4.8	9.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	02/18/2020 12:30	02/19/2020 01:27	AB
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.8	9.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	02/18/2020 12:30	02/19/2020 01:27	AB
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
100-42-5	Styrene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 12:30	02/19/2020 01:27	AB
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
108-88-3	Toluene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH	02/18/2020 12:30	02/19/2020 01:27	AB
79-01-6	Trichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB





## Sample Information

**Client Sample ID:** SB01 (12-14)

**York Sample ID:** 20B0564-04

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:05 am

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.2	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 12:30	02/19/2020 01:27	AB
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	93.0 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	91.1 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %			76-130						

### Semi-Volatiles, 8270 - Comprehensive

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	88.6	177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	88.6	177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	88.6	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH





## Sample Information

**Client Sample ID:** SB01 (12-14)

**York Sample ID:** 20B0564-04

**York Project (SDG) No.**  
20B0564

**Client Project ID**  
ZLLC2001

**Matrix**  
Soil

**Collection Date/Time**  
February 14, 2020 10:05 am

**Date Received**  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	88.6	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	88.6	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	88.6	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	88.6	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	88.6	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
83-32-9	Acenaphthene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
98-86-2	Acetophenone	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH



## Sample Information

**Client Sample ID:** SB01 (12-14)

**York Sample ID:** 20B0564-04

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:05 am

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-53-3	Aniline	ND		ug/kg dry	177	355	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
120-12-7	Anthracene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
1912-24-9	Atrazine	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
92-87-5	Benzidine	ND		ug/kg dry	177	355	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
65-85-0	Benzoic acid	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
105-60-2	Caprolactam	ND		ug/kg dry	88.6	177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
86-74-8	Carbazole	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
218-01-9	Chrysene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH



## Sample Information

**Client Sample ID:** SB01 (12-14)

**York Sample ID:** 20B0564-04

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:05 am

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
132-64-9	Dibenzofuran	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
206-44-0	Fluoranthene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
86-73-7	Fluorene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
78-59-1	Isophorone	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
91-20-3	Naphthalene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
85-01-8	Phenanthrene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
108-95-2	Phenol	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH



## Sample Information

**Client Sample ID:** SB01 (12-14)

**York Sample ID:** 20B0564-04

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 10:05 am

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	ND		ug/kg dry	44.4	88.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:30	02/20/2020 16:30	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	67.7 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	68.6 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	81.4 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	74.8 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	104 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	93.0 %			24-116						

### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	93.2		%	0.100	1	SM 2540G Certifications: CTDOH	02/18/2020 15:16	02/19/2020 09:21	TJM

## Sample Information

**Client Sample ID:** SB04 (3-6)

**York Sample ID:** 20B0564-05

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 2:30 pm

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB



## Sample Information

**Client Sample ID:** SB04 (3-6)

**York Sample ID:** 20B0564-05

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 2:30 pm

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:44	AB
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	02/24/2020 07:30	02/24/2020 12:44	AB
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:44	AB
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
123-91-1	1,4-Dioxane	ND		ug/kg dry	53	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:44	AB
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
67-64-1	Acetone	9.2	J	ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
107-02-8	Acrolein	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB



## Sample Information

**Client Sample ID:** SB04 (3-6)

**York Sample ID:** 20B0564-05

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 2:30 pm

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:44	AB
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:44	AB
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:44	AB
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:44	AB
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:44	AB
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:44	AB
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:44	AB



## Sample Information

**Client Sample ID:** SB04 (3-6)

**York Sample ID:** 20B0564-05

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 2:30 pm

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:44	AB
75-09-2	Methylene chloride	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	02/24/2020 07:30	02/24/2020 12:44	AB
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	02/24/2020 07:30	02/24/2020 12:44	AB
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
100-42-5	Styrene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	26	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/24/2020 07:30	02/24/2020 12:44	AB
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
108-88-3	Toluene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH	02/24/2020 07:30	02/24/2020 12:44	AB
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.9	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/24/2020 07:30	02/24/2020 12:44	AB

Surrogate Recoveries

Result

Acceptance Range





## Sample Information

**Client Sample ID:** SB04 (3-6)

**York Sample ID:** 20B0564-05

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 2:30 pm

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	98.0 %			77-125						
2037-26-5	Surrogate: SURRE: Toluene-d8	99.6 %			85-120						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	101 %			76-130						

### Semi-Volatiles, 8270 - Comprehensive

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	89.9	180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	89.9	180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	89.9	180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH





## Sample Information

**Client Sample ID:** SB04 (3-6)

**York Sample ID:** 20B0564-05

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 2:30 pm

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-57-8	2-Chlorophenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	89.9	180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	89.9	180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	89.9	180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	89.9	180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	89.9	180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
83-32-9	Acenaphthene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
98-86-2	Acetophenone	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
62-53-3	Aniline	ND		ug/kg dry	180	360	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
120-12-7	Anthracene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
1912-24-9	Atrazine	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH



## Sample Information

**Client Sample ID:** SB04 (3-6)

**York Sample ID:** 20B0564-05

**York Project (SDG) No.**  
20B0564

**Client Project ID**  
ZLLC2001

**Matrix**  
Soil

**Collection Date/Time**  
February 14, 2020 2:30 pm

**Date Received**  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	Benzaldehyde	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
92-87-5	Benzidine	ND		ug/kg dry	180	360	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
56-55-3	<b>Benzo(a)anthracene</b>	<b>124</b>		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
50-32-8	<b>Benzo(a)pyrene</b>	<b>115</b>		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>110</b>		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>76.2</b>	J	ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
207-08-9	<b>Benzo(k)fluoranthene</b>	<b>87.0</b>	J	ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
65-85-0	Benzoic acid	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
105-60-2	Caprolactam	ND		ug/kg dry	89.9	180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
86-74-8	Carbazole	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
218-01-9	<b>Chrysene</b>	<b>111</b>		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH



## Sample Information

**Client Sample ID:** SB04 (3-6)

**York Sample ID:** 20B0564-05

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 2:30 pm

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
206-44-0	Fluoranthene	281		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
86-73-7	Fluorene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
193-39-5	Indeno(1,2,3-cd)pyrene	73.3	J	ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
78-59-1	Isophorone	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
91-20-3	Naphthalene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
85-01-8	Phenanthrene	188		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
108-95-2	Phenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
129-00-0	Pyrene	220		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/21/2020 13:42	02/22/2020 20:49	KH
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: SURR: 2-Fluorophenol	55.5 %	20-108								
4165-62-2	Surrogate: SURR: Phenol-d5	58.1 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	74.6 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	63.5 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	90.5 %	19-110								



## Sample Information

**Client Sample ID:** SB04 (3-6)

**York Sample ID:** 20B0564-05

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 2:30 pm

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1718-51-0	Surrogate: SURR: Terphenyl-d14	69.4 %			24-116						

### Pesticides, 8081 target list

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
309-00-2	Aldrin	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	02/20/2020 07:28	02/21/2020 11:01	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
57-74-9	Chlordane, total	ND		ug/kg dry	35.5	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	02/20/2020 07:28	02/21/2020 11:01	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
72-20-8	Endrin	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	02/20/2020 07:28	02/21/2020 11:01	CM



## Sample Information

**Client Sample ID:** SB04 (3-6)

**York Sample ID:** 20B0564-05

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 2:30 pm

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02/14/2020

### Pesticides, 8081 target list

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-44-8	Heptachlor	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
72-43-5	Methoxychlor	ND		ug/kg dry	8.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
8001-35-2	Toxaphene	ND		ug/kg dry	89.7	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:01	CM
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>						
2051-24-3	Surrogate: Decachlorobiphenyl	72.4 %								
877-09-8	Surrogate: Tetrachloro-m-xylene	52.4 %								

### Polychlorinated Biphenyls (PCB)

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.179	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:57	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.179	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:57	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.179	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:57	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.179	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:57	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.179	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:57	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.179	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:57	SR
11096-82-5	<b>Aroclor 1260</b>	<b>3.85</b>		mg/kg dry	0.179	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	02/20/2020 07:28	02/21/2020 11:57	SR
1336-36-3	<b>* Total PCBs</b>	<b>3.85</b>		mg/kg dry	0.179	10	EPA 8082A Certifications:	02/20/2020 07:28	02/21/2020 11:57	SR
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>						
877-09-8	Surrogate: Tetrachloro-m-xylene	70.0 %								
2051-24-3	Surrogate: Decachlorobiphenyl	75.0 %								

### Metals, Target Analyte

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3050B

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

**Client Sample ID:** SB04 (3-6)

**York Sample ID:** 20B0564-05

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

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### Metals, Target Analyte

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	12500		mg/kg dry	5.41	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7440-36-0	Antimony	ND		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7440-38-2	Arsenic	4.08		mg/kg dry	1.62	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7440-39-3	Barium	106		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.325	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7440-70-2	Calcium	1720	B	mg/kg dry	5.41	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7440-47-3	Chromium	23.4		mg/kg dry	0.541	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7440-48-4	Cobalt	7.30		mg/kg dry	0.433	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7440-50-8	Copper	27.1		mg/kg dry	2.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7439-89-6	Iron	17500		mg/kg dry	27.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7439-92-1	Lead	136		mg/kg dry	0.541	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7439-95-4	Magnesium	2420		mg/kg dry	5.41	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7439-96-5	Manganese	383		mg/kg dry	0.541	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7440-02-0	Nickel	16.6		mg/kg dry	1.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7440-09-7	Potassium	959		mg/kg dry	5.41	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7782-49-2	Selenium	ND		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7440-22-4	Silver	ND		mg/kg dry	0.541	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7440-23-5	Sodium	78.9		mg/kg dry	54.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7440-28-0	Thallium	ND		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7440-62-2	Vanadium	28.6		mg/kg dry	1.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML
7440-66-6	Zinc	96.2		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:55	02/19/2020 12:48	KML



## Sample Information

**Client Sample ID:** SB04 (3-6)

**York Sample ID:** 20B0564-05

York Project (SDG) No.  
20B0564

Client Project ID  
ZLLC2001

Matrix  
Soil

Collection Date/Time  
February 14, 2020 2:30 pm

Date Received  
02/14/2020

### Mercury by 7473

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.137		mg/kg dry	0.0325	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	02/19/2020 17:19	02/19/2020 21:08	MAO

### Chromium, Hexavalent

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.541	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	02/18/2020 08:24	02/18/2020 16:20	JAG

### Chromium, Trivalent

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	23.4		mg/kg	0.500	1	Calculation Certifications:	02/19/2020 14:58	02/19/2020 14:59	TJM

### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	92.4		%	0.100	1	SM 2540G Certifications: CTDOH	02/18/2020 15:16	02/19/2020 09:21	TJM



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20B0564-01	SB01 (3-5)	40mL Vial with Stir Bar-Cool 4° C
20B0564-02	SB02 (10-12)	40mL Vial with Stir Bar-Cool 4° C
20B0564-03	SB03 (6-8)	40mL Vial with Stir Bar-Cool 4° C
20B0564-04	SB01 (12-14)	40mL Vial with Stir Bar-Cool 4° C
20B0564-05	SB04 (3-6)	40mL Vial with Stir Bar-Cool 4° C





### Sample and Data Qualifiers Relating to This Work Order

S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
S-08	The recovery of this surrogate was outside of QC limits.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-SRD1	The serial dilution for this element was outside control limits.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
M-CRL	The RL check for this element recovered outside of control limits.
M-BLK	The target analyte was detected above the RL in the batch method blank. All samples showed >10x the concentration in the blank for this analyte. Data are reported.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-L	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased low.
CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

### Definitions and Other Explanations

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



**High Bias** High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

**Non-Dir.** Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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

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

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**Revision Description:** This report has been revised to correct VOA and SVOA reporting.



York Analytical Laboratories, Inc.  
120 Research Drive  
Stratford, CT 06615  
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www.yorklab.com

**YORK**  
ANALYTICAL LABORATORIES, INC.

# Field Chain-of-Custody Record

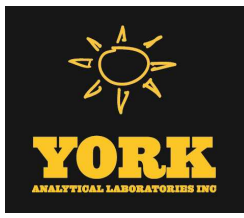
YORK Project No.

20B0524

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

Page 1 of 1

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company:	Castleton Env	Company:	SARE	Company:	SARE	ZLLC 2001		RUSH - Next Day	
Address:	54 GEORGE ST	Address:		Address:		ZLLC 2001		RUSH - Two Day	
Phone:	BABYLON NY	Phone:		Phone:				RUSH - Three Day	
Contact:	631-482-1818	Contact:		Contact:				RUSH - Four Day	
E-mail:	Jessica.Terengren	E-mail:		E-mail:				Standard (5-7 Day)	
Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.		Matrix Codes		Samples From		Report / EDD Type (circle selections)		YORK Reg. Comp.	
Samples Collected by: (print your name above and sign below)  J Terengren  J Terengren		S - soil / solid		New York		Summary Report		Compared to the following Regulation(s): (please fill in)	
		GW - groundwater		New Jersey		QA Report		PART 375 /	
		DW - drinking water		Connecticut		NY ASP A Package		CP-51	
		WW - wastewater		Pennsylvania		NY ASP B Package			
		O - Oil		Other		NY ASP C Package			
Sample Identification		Sample Matrix		Date/Time Sampled		Analysis Requested		Container Description	
SB01 (3-5)		S		2/14/20 1000		NYCOER Full Parameters		SB05 lot 180214	
SB02 (6-8)		S		2/14/20 1200		Full VOCs, Full SVOCs		SB05 lot 180214	
SB03 (6-8)		S		2/14/20 1340		NYCOER Full Parameters		SB05 lot 180214	
SB01 (2-14)		S		2/14/20 1005		Full VOCs, Full SVOCs		SB05 lot 180214	
SB04 (3-6)		S		2/14/20 1430		NYCOER Full Parameters		SB05 lot 180214	
Comments:		GER Parameters on SB01(3-5), SB03(6-8) + SB04(3-6)							
Samples Relinquished by / Company		Date/Time		Samples Relinquished by / Company		Date/Time		Special Instruction	
J Terengren		2/14/20 1550		Touff / Gub		2/14/20 1550		Field Filtered	
Received by / Company		Date/Time		Samples Relinquished by / Company		Date/Time		ab to Filter	
K Bady-walk		2/14/20 430M		K Bady-walk		2/14/20 430M			
Relinquished by / Company		Date/Time		Samples Received in LAB by		Date/Time		Temp. Received at Lab	
				2-14-20 1920				2.8	



# Technical Report

prepared for:

**Castleton Environmental**  
54 George Street  
Babylon NY, 11702  
**Attention: Jessica Ferngren**

Report Date: 02/21/2020  
**Client Project ID: ZLLC2001**  
York Project (SDG) No.: 20B0535

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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

STRATFORD, CT 06615  
(203) 325-1371

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

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

Report Date: 02/21/2020  
Client Project ID: ZLLC2001  
York Project (SDG) No.: 20B0535

**Castleton Environmental**  
54 George Street  
Babylon NY, 11702  
Attention: Jessica Ferngren

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## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 14, 2020 with a temperature of 2.1 C. The project was identified as your project: **ZLLC2001**.

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

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

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

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20B0535-01	GW01	Water	02/14/2020	02/14/2020

## **General Notes for York Project (SDG) No.: 20B0535**

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

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 02/21/2020







## Sample Information

**Client Sample ID:** GW01

**York Sample ID:** 20B0535-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

20B0535

ZLLC2001

Water

February 14, 2020 10:45 am

02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
71-55-6	1,1,1-Trichloroethane	3.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
75-34-3	1,1-Dichloroethane	2.1		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
75-35-4	1,1-Dichloroethylene	0.84		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 06:26	02/18/2020 15:07	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 06:26	02/18/2020 15:07	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 06:26	02/18/2020 15:07	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 06:26	02/18/2020 15:07	LLJ
78-93-3	2-Butanone	2.0		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ



## Sample Information

**Client Sample ID:** GW01

**York Sample ID:** 20B0535-01

York Project (SDG) No.  
20B0535

Client Project ID  
ZLLC2001

Matrix  
Water

Collection Date/Time  
February 14, 2020 10:45 am

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
108-10-1	4-Methyl-2-pentanone	0.24	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
67-64-1	Acetone	13	CCV-E	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 06:26	02/18/2020 15:07	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
74-83-9	Bromomethane	0.54	CCV-E	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
75-15-0	Carbon disulfide	0.52		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
74-87-3	Chloromethane	0.29	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 06:26	02/18/2020 15:07	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 06:26	02/18/2020 15:07	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 06:26	02/18/2020 15:07	LLJ





## Sample Information

**Client Sample ID:** GW01

**York Sample ID:** 20B0535-01

York Project (SDG) No.  
20B0535

Client Project ID  
ZLLC2001

Matrix  
Water

Collection Date/Time  
February 14, 2020 10:45 am

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 06:26	02/18/2020 15:07	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 06:26	02/18/2020 15:07	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 06:26	02/18/2020 15:07	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	02/18/2020 06:26	02/18/2020 15:07	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	02/18/2020 06:26	02/18/2020 15:07	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/18/2020 06:26	02/18/2020 15:07	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ



## Sample Information

**Client Sample ID:** GW01

**York Sample ID:** 20B0535-01

York Project (SDG) No.  
20B0535

Client Project ID  
ZLLC2001

Matrix  
Water

Collection Date/Time  
February 14, 2020 10:45 am

Date Received  
02/14/2020

### Volatile Organics, 8260 - Comprehensive

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	0.24	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	02/18/2020 06:26	02/18/2020 15:07	LLJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	97.8 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	95.9 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	96.3 %	79-122								

### Semi-Volatiles, 8270 - Comprehensive

#### Log-in Notes:

#### Sample Notes: EXT-D

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
120-83-2	2,4-Dichlorophenol	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
105-67-9	2,4-Dimethylphenol	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW



## Sample Information

**Client Sample ID:** GW01

**York Sample ID:** 20B0535-01

York Project (SDG) No.  
20B0535

Client Project ID  
ZLLC2001

Matrix  
Water

Collection Date/Time  
February 14, 2020 10:45 am

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes: EXT-D

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
51-28-5	2,4-Dinitrophenol	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
121-14-2	2,4-Dinitrotoluene	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
606-20-2	2,6-Dinitrotoluene	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
91-58-7	2-Chloronaphthalene	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
95-57-8	2-Chlorophenol	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
91-57-6	2-Methylnaphthalene	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
95-48-7	2-Methylphenol	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
88-74-4	2-Nitroaniline	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
88-75-5	2-Nitrophenol	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
99-09-2	3-Nitroaniline	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
106-47-8	4-Chloroaniline	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
100-01-6	4-Nitroaniline	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
100-02-7	4-Nitrophenol	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
83-32-9	Acenaphthene	0.0828		ug/L	0.0690	0.0690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
208-96-8	Acenaphthylene	ND		ug/L	0.0690	0.0690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW



## Sample Information

**Client Sample ID:** GW01

**York Sample ID:** 20B0535-01

York Project (SDG) No.  
20B0535

Client Project ID  
ZLLC2001

Matrix  
Water

Collection Date/Time  
February 14, 2020 10:45 am

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes: EXT-D

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-86-2	Acetophenone	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
62-53-3	Aniline	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
120-12-7	Anthracene	ND		ug/L	0.0690	0.0690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
1912-24-9	Atrazine	ND		ug/L	0.690	0.690	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
100-52-7	Benzaldehyde	ND	CCV-L	ug/L	3.45	6.90	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
92-87-5	Benzidine	ND	CCV-L	ug/L	13.8	27.6	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0690	0.0690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0690	0.0690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0690	0.0690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0690	0.0690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0690	0.0690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
65-85-0	Benzoic acid	ND		ug/L	34.5	69.0	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
100-51-6	Benzyl alcohol	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
85-68-7	Benzyl butyl phthalate	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.690	0.690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
105-60-2	Caprolactam	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
86-74-8	Carbazole	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
218-01-9	Chrysene	ND		ug/L	0.0690	0.0690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW



## Sample Information

**Client Sample ID:** GW01

**York Sample ID:** 20B0535-01

York Project (SDG) No.  
20B0535

Client Project ID  
ZLLC2001

Matrix  
Water

Collection Date/Time  
February 14, 2020 10:45 am

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes: EXT-D

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0690	0.0690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
132-64-9	Dibenzofuran	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
84-66-2	Diethyl phthalate	4.98	J	ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
131-11-3	Dimethyl phthalate	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
84-74-2	Di-n-butyl phthalate	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
117-84-0	Di-n-octyl phthalate	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
206-44-0	Fluoranthene	0.152		ug/L	0.0690	0.0690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
86-73-7	Fluorene	0.0690		ug/L	0.0690	0.0690	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
118-74-1	Hexachlorobenzene	ND		ug/L	0.0276	0.0276	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
87-68-3	Hexachlorobutadiene	ND		ug/L	0.690	0.690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
67-72-1	Hexachloroethane	ND		ug/L	0.690	0.690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0690	0.0690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
78-59-1	Isophorone	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
91-20-3	Naphthalene	0.0966	B	ug/L	0.0690	0.0690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
98-95-3	Nitrobenzene	ND		ug/L	0.345	0.345	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.690	0.690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW
87-86-5	Pentachlorophenol	ND		ug/L	0.345	0.345	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
85-01-8	Phenanthrene	0.566		ug/L	0.0690	0.0690	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
108-95-2	Phenol	ND		ug/L	3.45	6.90	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 00:03	OW



## Sample Information

**Client Sample ID:** GW01

**York Sample ID:** 20B0535-01

York Project (SDG) No.  
20B0535

Client Project ID  
ZLLC2001

Matrix  
Water

Collection Date/Time  
February 14, 2020 10:45 am

Date Received  
02/14/2020

### Semi-Volatiles, 8270 - Comprehensive

### Log-in Notes:

### Sample Notes: EXT-D

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	0.0966		ug/L	0.0690	0.0690	1	EPA 8270D Certifications: CTDH,NELAC-NY10854,NJDEP,PADEP	02/18/2020 07:49	02/19/2020 14:17	OW
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: SURR: 2-Fluorophenol	40.6 %	19.7-63.1								
4165-62-2	Surrogate: SURR: Phenol-d5	26.6 %	10.1-41.7								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	71.0 %	50.2-113								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	65.5 %	39.9-105								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	96.5 %	39.3-151								
1718-51-0	Surrogate: SURR: Terphenyl-d14	87.9 %	30.7-106								



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20B0535-01	GW01	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
EXT-D	The sample submitted contained sediment. The aqueous portion was decanted off, the volume measured and used for the extraction. The sediment was not included in the extraction.
CCV-L	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased low.
CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

## Definitions and Other Explanations

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





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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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

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



# Field Chain-of-Custody Record

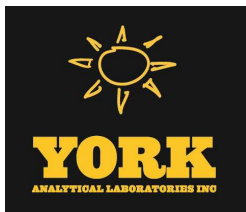
YORK Project No.

20B0535

Page / of

**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.

[illegible]



# Technical Report

prepared for:

**Castleton Environmental**

54 George Street

Babylon NY, 11702

**Attention: Jessica Ferngren**

Report Date: 02/21/2020

**Client Project ID: ZLLC2001**

York Project (SDG) No.: 20B0557

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE  
www.YORKLAB.com

STRATFORD, CT 06615  
(203) 325-1371

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

RICHMOND HILL, NY 11418  
ClientServices@yorklab.com

Report Date: 02/21/2020  
Client Project ID: ZLLC2001  
York Project (SDG) No.: 20B0557

**Castleton Environmental**  
54 George Street  
Babylon NY, 11702  
Attention: Jessica Ferngren

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## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 14, 2020 with a temperature of C. The project was identified as your project: **ZLLC2001**.

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

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

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

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20B0557-01	SSV01	Soil Vapor	02/14/2020	02/14/2020
20B0557-02	SSV02	Soil Vapor	02/14/2020	02/14/2020
20B0557-03	SSV03	Soil Vapor	02/14/2020	02/14/2020

## **General Notes for York Project (SDG) No.: 20B0557**

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

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 02/21/2020





## Sample Information

**Client Sample ID:** SSV01

**York Sample ID:** 20B0557-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

20B0557

ZLLC2001

Soil Vapor

February 14, 2020 10:25 am

02/14/2020

### Volatile Organics, EPA TO15 Full List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.2	1.717	EPA TO-15 Certifications:	02/18/2020 11:10	02/19/2020 16:31	LLJ
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>37</b>		ug/m <sup>3</sup>	0.94	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.2	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.3	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.94	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.69	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.17	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	1.3	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>1.1</b>		ug/m <sup>3</sup>	0.84	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.3	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.0	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.69	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.79	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	1.2	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	0.84	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	1.1	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.0	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.79	1.717	EPA TO-15 Certifications:	02/18/2020 11:10	02/19/2020 16:31	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.0	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	1.2	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
78-93-3	<b>2-Butanone</b>	<b>3.6</b>		ug/m <sup>3</sup>	0.51	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ



## Sample Information

**Client Sample ID:** SSV01

**York Sample ID:** 20B0557-01

York Project (SDG) No.  
20B0557

Client Project ID  
ZLLC2001

Matrix  
Soil Vapor

Collection Date/Time  
February 14, 2020 10:25 am

Date Received  
02/14/2020

### Volatile Organics, EPA TO15 Full List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	1.4	1.717	EPA TO-15 Certifications:	02/18/2020 11:10	02/19/2020 16:31	LLJ
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.7	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.70	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
67-64-1	<b>Acetone</b>	<b>22</b>		ug/m <sup>3</sup>	0.82	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.37	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
71-43-2	Benzene	ND		ug/m <sup>3</sup>	0.55	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.89	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	1.2	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.8	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.67	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
75-15-0	<b>Carbon disulfide</b>	<b>0.64</b>		ug/m <sup>3</sup>	0.53	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
56-23-5	<b>Carbon tetrachloride</b>	<b>0.54</b>		ug/m <sup>3</sup>	0.27	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.79	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.45	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	0.84	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	0.35	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.17	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.78	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.59	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.5	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
75-71-8	<b>Dichlorodifluoromethane</b>	<b>2.0</b>		ug/m <sup>3</sup>	0.85	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	1.2	1.717	EPA TO-15 Certifications:	02/18/2020 11:10	02/19/2020 16:31	LLJ





## Sample Information

**Client Sample ID:** SSV01

**York Sample ID:** 20B0557-01

York Project (SDG) No.  
20B0557

Client Project ID  
ZLLC2001

Matrix  
Soil Vapor

Collection Date/Time  
February 14, 2020 10:25 am

Date Received  
02/14/2020

### Volatile Organics, EPA TO15 Full List

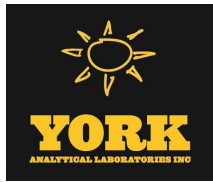
### Log-in Notes:

### 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	0.75		ug/m <sup>3</sup>	0.75	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.8	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
67-63-0	Isopropanol	2.6		ug/m <sup>3</sup>	0.84	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.70	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.62	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	1.2	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.70	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	0.61	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
95-47-6	o-Xylene	1.0		ug/m <sup>3</sup>	0.75	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
179601-23-1	p- & m- Xylenes	2.5		ug/m <sup>3</sup>	1.5	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	0.84	1.717	EPA TO-15 Certifications:	02/18/2020 11:10	02/19/2020 16:31	LLJ
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	0.30	1.717	EPA TO-15 Certifications:	02/18/2020 11:10	02/19/2020 16:31	LLJ
100-42-5	Styrene	1.5		ug/m <sup>3</sup>	0.73	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
127-18-4	Tetrachloroethylene	3.4		ug/m <sup>3</sup>	1.2	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	1.0	1.717	EPA TO-15 Certifications:	02/18/2020 11:10	02/19/2020 16:31	LLJ
108-88-3	Toluene	1.2		ug/m <sup>3</sup>	0.65	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.68	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.78	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	0.23	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
75-69-4	Trichlorofluoromethane (Freon 11)	1.8		ug/m <sup>3</sup>	0.96	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.60	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.75	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ





## Sample Information

**Client Sample ID:** SSV01

**York Sample ID:** 20B0557-01

York Project (SDG) No.

20B0557

Client Project ID

ZLLC2001

Matrix

Soil Vapor

Collection Date/Time

February 14, 2020 10:25 am

Date Received

02/14/2020

### Volatile Organics, EPA TO15 Full List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.11	1.717	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/18/2020 11:10	02/19/2020 16:31	LLJ
Surrogate Recoveries		Result		Acceptance Range						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	97.8 %		70-130						

## Sample Information

**Client Sample ID:** SSV02

**York Sample ID:** 20B0557-02

York Project (SDG) No.

20B0557

Client Project ID

ZLLC2001

Matrix

Soil Vapor

Collection Date/Time

February 14, 2020 10:28 am

Date Received

02/14/2020

### Volatile Organics, EPA TO15 Full List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.2	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
71-55-6	1,1,1-Trichloroethane	790		ug/m <sup>3</sup>	2.0	3.588	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 20:22	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.2	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.4	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.98	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.73	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.18	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	1.3	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
95-63-6	1,2,4-Trimethylbenzene	2.5		ug/m <sup>3</sup>	0.88	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.4	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.1	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.73	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ



## Sample Information

**Client Sample ID:** SSV02

**York Sample ID:** 20B0557-02

York Project (SDG) No.  
20B0557

Client Project ID  
ZLLC2001

Matrix  
Soil Vapor

Collection Date/Time  
February 14, 2020 10:28 am

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02/14/2020

### 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
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.83	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	1.3	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	0.88	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	1.2	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.1	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.83	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.1	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	1.3	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
78-93-3	<b>2-Butanone</b>	<b>15</b>		ug/m <sup>3</sup>	0.53	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
591-78-6	* <b>2-Hexanone</b>	<b>3.7</b>		ug/m <sup>3</sup>	1.5	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.8	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.73	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
67-64-1	<b>Acetone</b>	<b>410</b>		ug/m <sup>3</sup>	1.7	3.588	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 20:22	LLJ
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.39	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
71-43-2	<b>Benzene</b>	<b>10</b>		ug/m <sup>3</sup>	0.57	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.93	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	1.2	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.9	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.70	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
75-15-0	<b>Carbon disulfide</b>	<b>34</b>		ug/m <sup>3</sup>	0.56	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.28	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.83	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ



## Sample Information

**Client Sample ID:** SSV02

**York Sample ID:** 20B0557-02

York Project (SDG) No.  
20B0557

Client Project ID  
ZLLC2001

Matrix  
Soil Vapor

Collection Date/Time  
February 14, 2020 10:28 am

Date Received  
02/14/2020

### 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
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.47	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
67-66-3	<b>Chloroform</b>	<b>2.1</b>		ug/m <sup>3</sup>	0.88	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	0.37	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.18	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.81	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.62	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.5	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
75-71-8	<b>Dichlorodifluoromethane</b>	<b>2.1</b>		ug/m <sup>3</sup>	0.89	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	1.3	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
100-41-4	<b>Ethyl Benzene</b>	<b>2.1</b>		ug/m <sup>3</sup>	0.78	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.9	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
67-63-0	<b>Isopropanol</b>	<b>42</b>		ug/m <sup>3</sup>	0.88	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.73	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.65	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	1.2	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.74	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
110-54-3	<b>n-Hexane</b>	<b>2.9</b>		ug/m <sup>3</sup>	0.63	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
95-47-6	<b>o-Xylene</b>	<b>3.0</b>		ug/m <sup>3</sup>	0.78	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>7.5</b>		ug/m <sup>3</sup>	1.6	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
622-96-8	* <b>p-Ethyltoluene</b>	<b>1.6</b>		ug/m <sup>3</sup>	0.88	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
115-07-1	* <b>Propylene</b>	<b>11</b>		ug/m <sup>3</sup>	0.31	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
100-42-5	<b>Styrene</b>	<b>4.0</b>		ug/m <sup>3</sup>	0.76	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ



## Sample Information

**Client Sample ID:** SSV02

**York Sample ID:** 20B0557-02

York Project (SDG) No.  
20B0557

Client Project ID  
ZLLC2001

Matrix  
Soil Vapor

Collection Date/Time  
February 14, 2020 10:28 am

Date Received  
02/14/2020

### 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	<b>Tetrachloroethylene</b>	<b>1.7</b>		ug/m <sup>3</sup>	1.2	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	1.1	1.794	EPA TO-15 Certifications:	02/19/2020 14:11	02/20/2020 14:39	LLJ
108-88-3	<b>Toluene</b>	<b>36</b>		ug/m <sup>3</sup>	0.68	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.71	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.81	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	0.24	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>1.8</b>		ug/m <sup>3</sup>	1.0	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.63	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.78	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.11	1.794	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 14:39	LLJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %	70-130							

## Sample Information

**Client Sample ID:** SSV03

**York Sample ID:** 20B0557-03

York Project (SDG) No.  
20B0557

Client Project ID  
ZLLC2001

Matrix  
Soil Vapor

Collection Date/Time  
February 14, 2020 10:29 am

Date Received  
02/14/2020

### Volatile Organics, EPA TO15 Full List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.2	1.809	EPA TO-15 Certifications:	02/19/2020 14:11	02/20/2020 21:15	LLJ
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>16</b>		ug/m <sup>3</sup>	0.99	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.2	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.4	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ



## Sample Information

**Client Sample ID:** SSV03

**York Sample ID:** 20B0557-03

York Project (SDG) No.  
20B0557

Client Project ID  
ZLLC2001

Matrix  
Soil Vapor

Collection Date/Time  
February 14, 2020 10:29 am

Date Received  
02/14/2020

### 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		ug/m <sup>3</sup>	0.99	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.73	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.18	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	1.3	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>2.4</b>		ug/m <sup>3</sup>	0.89	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.4	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.1	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.73	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.84	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	1.3	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>0.98</b>		ug/m <sup>3</sup>	0.89	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	1.2	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.1	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.84	1.809	EPA TO-15 Certifications:	02/19/2020 14:11	02/20/2020 21:15	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.1	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	1.3	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
78-93-3	<b>2-Butanone</b>	<b>10</b>		ug/m <sup>3</sup>	0.53	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	1.5	1.809	EPA TO-15 Certifications:	02/19/2020 14:11	02/20/2020 21:15	LLJ
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.8	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.74	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
67-64-1	<b>Acetone</b>	<b>120</b>		ug/m <sup>3</sup>	0.86	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.39	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ



## Sample Information

**Client Sample ID:** SSV03

**York Sample ID:** 20B0557-03

York Project (SDG) No.  
20B0557

Client Project ID  
ZLLC2001

Matrix  
Soil Vapor

Collection Date/Time  
February 14, 2020 10:29 am

Date Received  
02/14/2020

### Volatile Organics, EPA TO15 Full List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	<b>Benzene</b>	<b>11</b>		ug/m <sup>3</sup>	0.58	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.94	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	1.2	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.9	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.70	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
75-15-0	<b>Carbon disulfide</b>	<b>14</b>		ug/m <sup>3</sup>	0.56	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
56-23-5	<b>Carbon tetrachloride</b>	<b>1.0</b>		ug/m <sup>3</sup>	0.28	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.83	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.48	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
67-66-3	<b>Chloroform</b>	<b>21</b>		ug/m <sup>3</sup>	0.88	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	0.37	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.18	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.82	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
110-82-7	<b>Cyclohexane</b>	<b>4.1</b>		ug/m <sup>3</sup>	0.62	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.5	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
75-71-8	<b>Dichlorodifluoromethane</b>	<b>1.9</b>		ug/m <sup>3</sup>	0.89	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	1.3	1.809	EPA TO-15 Certifications:	02/19/2020 14:11	02/20/2020 21:15	LLJ
100-41-4	<b>Ethyl Benzene</b>	<b>2.0</b>		ug/m <sup>3</sup>	0.79	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.9	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
67-63-0	<b>Isopropanol</b>	<b>10</b>		ug/m <sup>3</sup>	0.89	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.74	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.65	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ



## Sample Information

**Client Sample ID:** SSV03

**York Sample ID:** 20B0557-03

York Project (SDG) No.  
20B0557

Client Project ID  
ZLLC2001

Matrix  
Soil Vapor

Collection Date/Time  
February 14, 2020 10:29 am

Date Received  
02/14/2020

### 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
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	1.3	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.74	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
110-54-3	<b>n-Hexane</b>	<b>2.2</b>		ug/m <sup>3</sup>	0.64	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
95-47-6	<b>o-Xylene</b>	<b>2.5</b>		ug/m <sup>3</sup>	0.79	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>6.1</b>		ug/m <sup>3</sup>	1.6	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
622-96-8	<b>* p-Ethyltoluene</b>	<b>1.4</b>		ug/m <sup>3</sup>	0.89	1.809	EPA TO-15 Certifications:	02/19/2020 14:11	02/20/2020 21:15	LLJ
115-07-1	<b>* Propylene</b>	<b>10</b>		ug/m <sup>3</sup>	0.31	1.809	EPA TO-15 Certifications:	02/19/2020 14:11	02/20/2020 21:15	LLJ
100-42-5	<b>Styrene</b>	<b>2.9</b>		ug/m <sup>3</sup>	0.77	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
127-18-4	<b>Tetrachloroethylene</b>	<b>47</b>		ug/m <sup>3</sup>	1.2	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	1.1	1.809	EPA TO-15 Certifications:	02/19/2020 14:11	02/20/2020 21:15	LLJ
108-88-3	<b>Toluene</b>	<b>20</b>		ug/m <sup>3</sup>	0.68	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.72	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.82	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
79-01-6	<b>Trichloroethylene</b>	<b>220</b>		ug/m <sup>3</sup>	0.24	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>2.2</b>		ug/m <sup>3</sup>	1.0	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.64	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.79	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.12	1.809	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	02/19/2020 14:11	02/20/2020 21:15	LLJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
460-00-4	Surrogate: SRR: p-Bromofluorobenzene	99.1 %	70-130							



## Sample and Data Qualifiers Relating to This Work Order

### Definitions and Other Explanations

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

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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

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







## **APPENDIX D**

**Matrix A**

 Carbon tetrachloride, 1,1-dichloroethene, *cis*-1,2-dichloroethene, trichloroethene

Sub Slab Vapor Conc (ug/m <sup>3</sup> )		Indoor Air Concentration (ug/m <sup>3</sup> )		
		<0.2	0.2 to <1	1 and Above
	<b>Result</b>			
<6		No Further Action	No further Action	Identify Source(s) and Resample or Mitigate
6 to <60		No Further Action	Monitor	Mitigate
60 and above		Mitigate	Mitigate	Mitigate

**Matrix B**

Methylene Chloride, tetrachloroethene, 1,1,1-trichloroethane

Sub Slab Vapor Conc (ug/m <sup>3</sup> )		Indoor Air Concentration (ug/m <sup>3</sup> )		
		<3	3 to <10	10 and Above
	<b>Result</b>			
<100		No Further Action	No Further Action	Identify Source(s) and Resample or Mitigate
100 to <1,000		No Further Action	Monitor	Mitigate
1,000 and above		Mitigate	Mitigate	Mitigate

**Matrix C**

Vinyl Chloride

Sub Slab Vapor Conc (ug/m <sup>3</sup> ) - PCE		Indoor Air Concentration (ug/m <sup>3</sup> )	
		<0.2	0.2 and Above
	<b>Result</b>		
<6		No Further Action	Identify Source(s) and Resample or Mitigate
6 to <60		Monitor	Mitigate
60 and above		Mitigate	Mitigate