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**To:** Michael Davis – The Plymouth Group III LLC

**From:** Michael Burke – Langan

**Cc:** Stuart Knoop, Julia Leung – Langan

**Date:** January 15, 2019

**Re:** Supplemental Subsurface Investigation  
Block 3245, Lot 3  
Southwestern Portion of CSX Parcel  
Bronx, New York  
Langan Project No.: 170502901

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Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) completed a Supplemental Subsurface Investigation (SSI) on behalf of the Plymouth Group III LLC for the lot identified as the “CSX Parcel”, which is located along the Harlem River waterfront in the University Heights neighborhood of the Bronx, New York. The purpose of the SSI was to investigate subsurface areas in the southern portion of Lot 3. During a 2018 Phase II Environmental Site Investigation (ESI), an up to four-foot-thick layer of concrete washout and aggregate precluded sampling in this area, which was historically used for the parking and potential repair of vehicles operated by the adjoining concrete mixing plant. This memorandum summarizes the site background, investigation methodology, analytical results and investigation findings.

## Site Background

The site is located in an urban area in the University Heights neighborhood of the Bronx, New York. The site encompasses an area of about 480,000 square feet ( $\pm 11$  acres) and occupies Block 3244, Lot 1 and Block 3245, Lot 3 on the Bronx Borough Tax Map. Lot 3 constitutes the western portion of the site that borders the Harlem River to the west. The site is bound by a Metro-North Railroad easement to the north and east, and a concrete manufacturing facility (Block 3244, Lot 160) and an extension of Exterior Street to the south. The site is currently vacant land with uncultivated vegetation, portions of asphalt-paved roadway, and discontinuous concrete cover. A 2018 Phase I Environmental Site Assessment (ESA) noted that potential commercial vehicle repair operations on the southern portion of Lot 3 and a vehicle repair facility at the adjoining concrete mixing plant between 1984 and 2007 may have resulted in a potential release of petroleum and chlorinated compounds and other hazardous substances.

## Field Investigation

The SSI was conducted on December 18, 2018 and included:

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- Advancement of two soil borings to a depth of about 19 feet below grade surface (bgs) and collection of five soil samples
- Installation of two temporary groundwater monitoring wells and collection of two groundwater samples
- Collection of one soil vapor sample

## Soil Investigation

Two soil borings (SP21 and SP22) were advanced by AARCO Environmental Services Corp. (AARCO) on the southern portion of Lot 3. Langan field personnel documented drilling activities and collected samples. The soil borings were advanced to a depth of about 19 feet bgs using an air-rotary hammer and a Geoprobe® 7822DT direct-push drill rig. Soil samples were inspected for visual and olfactory evidence of impacts and screened for organic vapors with a photoionization detector (PID). A total of 5 grab soil samples were collected for laboratory analyses. Samples were collected from each boring from the depth intervals below the concrete surface cover (i.e., about 3 to 5 feet bgs) and immediately above the groundwater table interface (i.e., between about 9 and 11 feet bgs). An additional soil sample was collected at SP22 between about 13 and 15 feet bgs because of the presence of stained wood at that interval. Soil boring locations are shown on Figure 1, and soil boring logs are provided as Attachment 1.

Soil samples were collected into laboratory-supplied containers and delivered via courier under standard chain-of-custody protocol to York Analytical Laboratories (York). York is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory. Samples were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals (including hexavalent and trivalent chromium and cyanide), polychlorinated biphenyls (PCBs), and pesticides.

## Groundwater Investigation

AARCO installed two temporary monitoring wells (TMW21 and TMW22) within borings SP21 and SP22. The monitoring wells were constructed using 1-inch diameter polyvinyl chloride (PVC) riser pipe with 10-feet long, 0.01-inch slotted screens. The well annulus around each screen was backfilled with clean sand up to surface grade. Monitoring well locations are shown on Figure 2.

One groundwater sample was collected from each well for laboratory analyses. Before sampling, the headspace of each well was monitored with a PID and the wells were gauged with an interface probe to determine depth to groundwater. Langan monitored groundwater quality parameters with a multi-parameter water quality instrument during sampling. Samples were collected with a peristaltic pump fitted with dedicated, disposable polyethylene tubing. Samples were collected into laboratory-supplied containers and delivered via courier to York

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under standard chain-of-custody protocol. Samples were analyzed for VOCs, SVOCs, PCBs, and metals (total and dissolved). Groundwater sampling logs are provided as Attachment 2.

## Soil Vapor Investigation

AARCO installed one soil vapor sample point (SV21) by advancing a boring to a depth of about 4 feet bgs and inserting a two-inch-long polyethylene probe attached to dedicated polyethylene tubing into the 2-inch-diameter borehole. The annulus around the tubing was filled with clean No. 2 Sand to about 1 foot bgs, and the sample point was capped by bentonite slurry.

The soil vapor point was purged using a MultiRAE five-gas meter at an approximate rate of 0.2 liters per minute (L/min) to evacuate a minimum of three tubing/vapor point volumes prior to sample collection. The soil vapor sample was collected into a laboratory-supplied, batch-certified, 6-liter Summa® canister that was calibrated for a 2-hour sampling period. The canister was labeled and transported via courier to York following standard chain-of-custody protocols. The soil vapor sample was analyzed for VOCs via United States Environmental Protection Agency (USEPA) Method TO-15 and methane. The soil vapor sample location is shown on Figure 3, and a soil vapor sampling log is provided as Attachment 3.

## **Observations and Results**

### Field Observations

Historic fill material was observed below the 3- to 4-foot-thick concrete surface cover and extends to depths of about 14 and 15 feet bgs at the sampling locations. The fill primarily consists of brown, fine- to medium-grained sand with varying amounts of silt, gravel, concrete, brick, coal, slag, and wood. Native soil consisting of medium- to coarse-grained sand with varying amounts of gravel, silt and mica was observed below the historic fill and extended to boring termination depths. Bedrock was not encountered. Evidence of petroleum or other chemical impacts (e.g., staining, odors, and PID readings above background) was not observed.

Groundwater was observed at depths of 12.4 and 12.7 feet bgs. Based on topography, the inferred regional groundwater flow direction in the area surrounding the site is to the west toward the Harlem River.

### Soil Analytical Results

Five soil samples were submitted for laboratory analysis. Analytical results were compared to the Title 6 of the New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use (UU) and Restricted Use Restricted-Residential (RRU) Soil Cleanup Objectives (SCO). Compounds that exceeded the SCOs are summarized below and those detected at concentrations above the RRU SCOs are presented in **bold**. Maximum detected concentrations are shown in parentheses. Soil sample analytical results are summarized in Table 1 and Figure 1.

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- VOCs – VOCs were not detected at concentrations above the UU SCOs.
- SVOCs – SVOCs were detected at concentrations above the UU SCOs and RRU SCOs in one sample collected from boring SP22 from 9 to 11 feet bgs.
  - **Benzo(a)anthracene** (12.9 milligrams per kilogram [mg/kg])
  - **Benzo(a)pyrene** (10.4 mg/kg)
  - **Benzo(b)fluoranthene** (9.75 mg/kg)
  - **Benzo(k)fluoranthene** (7.52 mg/kg)
  - **Chrysene** (12 mg/kg)
  - **Dibenzo(a,h)anthracene** (2.64 mg/kg)
  - **Indeno(1,2,3-cd)pyrene** (8.13 mg/kg)
- Inorganics – Inorganics were detected at concentrations above the UU SCOs in four samples collected from between 3 and 15 feet bgs.
  - Chromium, Trivalent (66.1 mg/kg – SP22\_9-11)
  - Copper (75.3 mg/kg – SP21\_3-5)
  - Lead (157 mg/kg – SP21\_3-5)
  - Mercury (0.332 mg/kg – SP22\_9-11)
  - Selenium (27.7 mg/kg – SP22\_3-5)
  - Zinc (110 mg/kg – SP21\_3-5)
- Pesticides and PCBs – Pesticides and PCBs were not detected in soil samples

## Groundwater Analytical Results

Two groundwater samples were submitted for laboratory analysis. Analytical results were compared to the NYSDEC Technical and Operational Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards (AWQS) and Guidance Values (GV) for Class GA Groundwater. Groundwater analytical results are summarized in Table 2 and shown in Figure 2. Constituents detected above the TOGS AWQS/GV are summarized below. Maximum detected concentrations are shown in parentheses.

- VOCs, SVOCs, and PCBs – VOCs, SVOCs, and PCBs were not detected at concentrations above the TOGS AWQS/GV.
- Metals – Total and dissolved-phase metals were detected at concentrations above the TOGS AWQS/GV in groundwater samples collected from TMW21 and TMW22.
  - Cadmium (12.8 micrograms per liter [µg/l] – TMW22)
  - Cadmium (Dissolved) (12.8 µg/l – TMW22)
  - Iron (7,690 µg/l – TMW22)

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- Magnesium (207,000 µg/l – TMW21)
- Magnesium (Dissolved) (218,000 µg/l – TMW21)
- Manganese (3,070 µg/l – TMW22)
- Manganese (Dissolved) (2,790 µg/l – TMW22)
- Selenium (16 µg/l – TMW21)
- Sodium (3,250,000 µg/l – TMW21)
- Sodium (Dissolved) (2,030,000 µg/l – TMW21)

## Soil Vapor Analytical Results

One soil vapor sample was analyzed for VOCs and methane. New York State currently does not have standards, criteria, or guidance for concentrations of VOCs and methane in soil vapor. In lieu of regulatory standards, the New York State Department of Health (NYSDOH) Air Guideline Values (AGV) and Decision Matrices published in the 2006 NYSDOH Soil Vapor Intrusion Guidance, updated in 2017, were used as comparison criteria for applicable VOC concentrations. NYSDOH AGVs are established for methylene chloride, tetrachloroethylene (PCE), and trichloroethene (TCE). The NYSDOH Decision Matrices (Matrices A, B, and C) address the compounds PCE, TCE, 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethene, cis-1,2-dichloroethene, vinyl chloride, methylene chloride and carbon tetrachloride. The matrix evaluation requires soil vapor and indoor air data. In the absence of indoor air sampling data, the matrices provide a minimum soil vapor concentration above which monitoring and/or mitigation is recommended. The analytical results are summarized as follows:

- Several VOCs were detected in the soil vapor sample. The total VOC concentration was about 152 micrograms per cubic meter (µg/m<sup>3</sup>).
- PCE was detected at 4.1 µg/m<sup>3</sup>, which does not exceed the AGV of 30 µg/m<sup>3</sup>. The recommendations provided in NYSDOH Decision Matrix B for the detected PCE concentration range from “no further action” to “identify source and resample or mitigate”.
- Methane and the remaining compounds evaluated in the NYSDOH AGVs and NYSDOH Decision Matrices were not detected.

Soil vapor sample results are summarized in Table 3 and Figure 3. The laboratory analytical reports for the soil, groundwater, and soil vapor samples are provided as Attachment 4.

Sincerely,  
**Langan Engineering, Environmental, Surveying,  
Landscape Architecture and Geology, D.P.C.**



Michael Burke, PG, CHMM

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Principal/Vice President

Enclosure(s):     Figure 1 – Soil Sample Location and Results Map  
                         Figure 2 – Groundwater Sample Location and Results Map  
                         Figure 3 – Soil Vapor Sample Location and Results Map  
                         Table 1 – Soil Sample Analytical Results Summary  
                         Table 2 - Groundwater Sample Analytical Results Summary  
                         Table 3 – Soil Vapor Sample Analytical Results Summary  
                         Attachment 1 – Soil Boring Logs  
                         Attachment 2 – Groundwater Sampling Logs  
                         Attachment 3 – Soil Vapor Sampling Logs  
                         Attachment 4 – Laboratory Analytical Reports

## Figures



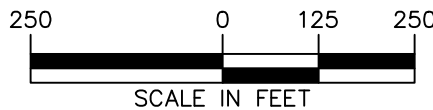
Analyte	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs
<b>SVOCs (mg/kg)</b>		
Benzo(a)anthracene	1	1
Benzo(a)pyrene	1	1
Benzo(b)fluoranthene	1	1
Benzo(k)fluoranthene	0.8	3.9
Chrysene	1	3.9
Dibenzo(a,h)anthracene	0.33	0.33
Indeno(1,2,3-cd)pyrene	0.5	0.5
<b>Inorganics (mg/kg)</b>		
Chromium, Trivalent	30	180
Copper	50	270
Lead	63	400
Mercury	0.18	0.81
Selenium	3.9	180
Zinc	109	10000

SP21			
Sample ID	SP21_3-5	SP21_8-10	SP21_13-15
Lab Sample ID	18L0827-01	18L0827-02	18L0827-03
Sample Date	12/18/2018	12/18/2018	12/18/2018
Sample Depth (ft)	3 to 5	8 to 10	13 to 15
<b>VOCs (mg/kg)</b>			
Total VOCs	NE	NE	NE
<b>SVOCs (mg/kg)</b>			
Total SVOCs	NE	ND	ND
<b>Pesticides (mg/kg)</b>			
Total Pesticides	ND	ND	ND
<b>PCBs (mg/kg)</b>			
Total PCBs	ND	ND	ND
<b>Inorganics (mg/kg)</b>			
Copper	75.3	NE	NE
Lead	157	NE	NE
Mercury	0.218	ND	0.261
Zinc	110	NE	NE

SP22			
Sample ID	SP22_3-5	SP22_9-11	
Lab Sample ID	18L0827-04	18L0827-05	
Sample Date	12/18/2018	12/18/2018	
Sample Depth (ft)	3 to 5	9 to 11	
<b>VOCs (mg/kg)</b>			
Total VOCs	NE	ND	
<b>SVOCs (mg/kg)</b>			
Benzo(a)anthracene	NE	12.9	D
Benzo(a)pyrene	NE	10.4	D
Benzo(b)fluoranthene	NE	9.75	D
Benzo(k)fluoranthene	NE	7.52	D
Chrysene	NE	12	D
Dibenzo(a,h)anthracene	ND	2.64	D
Indeno(1,2,3-cd)pyrene	NE	8.13	D
<b>Pesticides (mg/kg)</b>			
Total Pesticides	ND	ND	
<b>PCBs (mg/kg)</b>			
Total PCBs	ND	ND	
<b>Inorganics (mg/kg)</b>			
Chromium, Trivalent	NE	66.1	
Mercury	NE	0.332	
Selenium	27.7	ND	

**GENERAL NOTES:**

- THE SOIL SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TITLE 6 OF THE OFFICIAL COMPILATION OF NEW YORK CODES, RULES, AND REGULATIONS (6 NYCRR) PART 375 UNRESTRICTED USE AND RESTRICTED USE RESTRICTED-RESIDENTIAL SOIL CLEANUP OBJECTIVES (SCO).
- EXISTING INFORMATION TAKEN FROM TOPOGRAPHIC AND BOUNDARY SURVEY PREPARED BY FEHRINGER SURVEYING, P.C., DATED 14 MARCH 2011.
- ALL SAMPLE LOCATIONS ARE APPROXIMATE.
- ALL ELEVATIONS ARE SHOWN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- ESI = ENVIRONMENTAL SITE INVESTIGATION
- FT = FEET
- ANALYTES WITH CONCENTRATIONS EXCEEDING NYSDEC PART 375 UNRESTRICTED USE SCOs ARE BOLD.
- ANALYTES WITH CONCENTRATIONS EXCEEDING NYSDEC PART 375 RESTRICTED USE RESTRICTED-RESIDENTIAL SCOs ARE BOLD AND SHADED.
- MG/KG = MILLIGRAMS PER KILOGRAM.
- VOC = VOLATILE ORGANIC COMPOUND
- SVOC = SEMIVOLATILE ORGANIC COMPOUND
- PCB = POLYCHLORINATED BIPHENYL
- ND = NOT DETECTED.
- NE = DETECTED AT CONCENTRATION(S) NOT EXCEEDING UU SCOs.
- D = RESULT IS FROM AN ANALYSIS THAT REQUIRED A DILUTION.



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Project  
**CSX PARCEL**  
BLOCK No. 3244, LOT No. 1  
BLOCK No. 3245, LOT No. 3  
BRONX NEW YORK

Figure Title  
**SOIL SAMPLE LOCATION AND RESULTS MAP**

Project No.  
170502901  
Date  
12/28/2018  
Drawn By  
SS  
Checked By  
JL

Figure No.  
**1**  
Sheet 1 of 3

**LEGEND:**

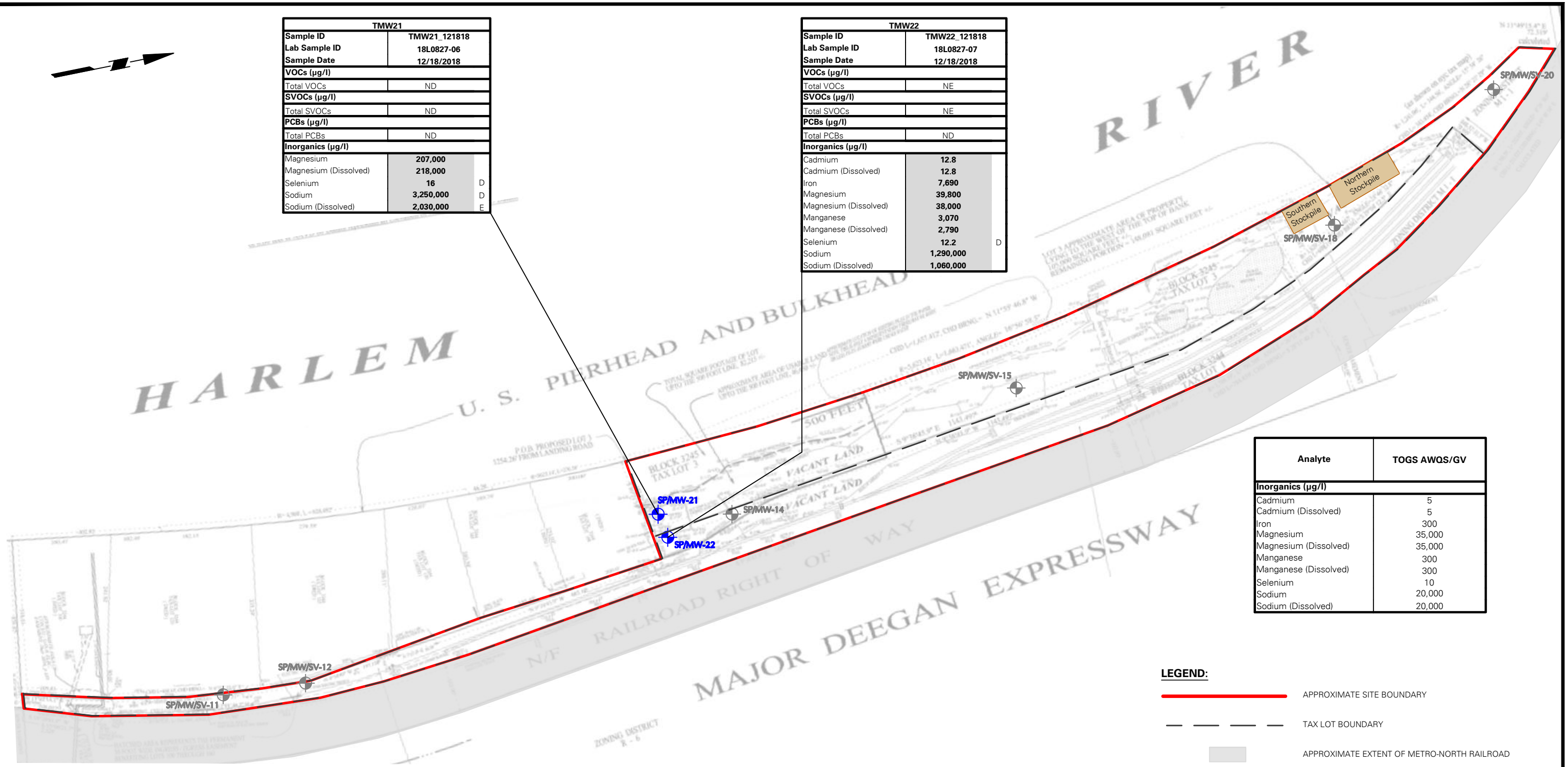
- APPROXIMATE SITE BOUNDARY
- TAX LOT BOUNDARY
- APPROXIMATE EXTENT OF METRO-NORTH RAILROAD
- SOIL VAPOR PROBE
- CO-LOCATED SOIL BORING AND TEMPORARY MONITORING WELL
- SHALLOW SOIL BORING LOCATION (2018 PHASE II ESI)
- SOIL BORING LOCATION (2018 PHASE II ESI)
- CO-LOCATED SOIL BORING AND TEMPORARY MONITORING WELL (2018 PHASE II ESI)
- CO-LOCATED SOIL BORING, TEMPORARY MONITORING WELL AND SOIL VAPOR PROBE (2018 PHASE II ESI)





TMW21	
Sample ID	TMW21_121818
Lab Sample ID	18L0827-06
Sample Date	12/18/2018
<b>VOCs (µg/l)</b>	
Total VOCs	ND
<b>SVOCs (µg/l)</b>	
Total SVOCs	ND
<b>PCBs (µg/l)</b>	
Total PCBs	ND
<b>Inorganics (µg/l)</b>	
Magnesium	207,000
Magnesium (Dissolved)	218,000
Selenium	16
Sodium	3,250,000
Sodium (Dissolved)	2,030,000

TMW22	
Sample ID	TMW22_121818
Lab Sample ID	18L0827-07
Sample Date	12/18/2018
<b>VOCs (µg/l)</b>	
Total VOCs	NE
<b>SVOCs (µg/l)</b>	
Total SVOCs	NE
<b>PCBs (µg/l)</b>	
Total PCBs	ND
<b>Inorganics (µg/l)</b>	
Cadmium	12.8
Cadmium (Dissolved)	12.8
Iron	7,690
Magnesium	39,800
Magnesium (Dissolved)	38,000
Manganese	3,070
Manganese (Dissolved)	2,790
Selenium	12.2
Sodium	1,290,000
Sodium (Dissolved)	1,060,000



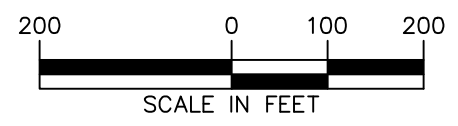
Analyte	TOGS AWQS/GV
<b>Inorganics (µg/l)</b>	
Cadmium	5
Cadmium (Dissolved)	5
Iron	300
Magnesium	35,000
Magnesium (Dissolved)	35,000
Manganese	300
Manganese (Dissolved)	300
Selenium	10
Sodium	20,000
Sodium (Dissolved)	20,000

**LEGEND:**

- APPROXIMATE SITE BOUNDARY
- - - - - TAX LOT BOUNDARY
- APPROXIMATE EXTENT OF METRO-NORTH RAILROAD
- CO-LOCATED SOIL BORING AND TEMPORARY MONITORING WELL
- CO-LOCATED SOIL BORING AND TEMPORARY MONITORING WELL (2018 PHASE II ESI)
- CO-LOCATED SOIL BORING, TEMPORARY MONITORING WELL AND SOIL VAPOR PROBE (2018 PHASE II ESI)

**GENERAL NOTES:**

1. GROUNDWATER SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS 1.1.1) AMBIENT WATER QUALITY STANDARDS (AWQS) AND GUIDANCE VALUES (GV) FOR CLASS GA GROUNDWATER (TOGS AWQS/GV).
2. EXISTING INFORMATION TAKEN FROM TOPOGRAPHIC AND BOUNDARY SURVEY PREPARED BY FEHRINGER SURVEYING, P.C., DATED 14 MARCH 2011.
3. ALL SAMPLE LOCATIONS ARE APPROXIMATE.
4. ALL ELEVATIONS ARE SHOWN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
5. ESI = ENVIRONMENTAL SITE INVESTIGATION
6. FT = FEET
7. NYSDEC TOGS STANDARDS AND GUIDANCE VALUES EXCEEDANCES ARE SHADED AND BOLDED.
8. µg/l = MICROGRAMS PER LITER.
9. VOC = VOLATILE ORGANIC COMPOUND
10. SVOC = SEMIVOLATILE ORGANIC COMPOUND
11. PCB = POLYCHLORINATED BIPHENYL
12. ND = NOT DETECTED.
13. NE = DETECTED AT CONCENTRATION(S) NOT EXCEEDING THE TOGS AWQS/GV.
14. D = RESULT IS FROM AN ANALYSIS THAT REQUIRED A DILUTION.
15. E = THE RESULT IS ESTIMATED AND CANNOT BE ACCURATELY REPORTED DUE TO LEVELS ENCOUNTERED OR INTERFERENCES.



<p>Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	<p>Project</p> <p style="text-align: center;"><b>CSX PARCEL</b></p> <p>BLOCK No. 3244, LOT No. 1 BLOCK No. 3245, LOT No. 3 BRONX NEW YORK</p>	<p>Figure Title</p> <p style="text-align: center;"><b>GROUNDWATER SAMPLE LOCATION AND RESULTS MAP</b></p>	<p>Project No.</p> <p style="text-align: center;">170502901</p>	<p>Figure No.</p> <p style="text-align: center; font-size: 2em;"><b>2</b></p>
	<p>Date</p> <p style="text-align: center;">12/28/2018</p>	<p>Drawn By</p> <p style="text-align: center;">SS</p>	<p>Checked By</p> <p style="text-align: center;">JL</p>	<p>Sheet 2 of 3</p>



SV21		
Sample ID	SV21_121818	
Lab Sample ID	18L0829-01	
Sample Date	12/18/2018	
<b>VOCs (µg/m³)</b>		
1,2,4-Trimethylbenzene	11	D
1,3,5-Trimethylbenzene (Mesitylene)	2.1	D
2-Hexanone	7	D
4-Ethyltoluene	14	D
Acetone	9	D
Benzene	0.79	D
Carbon Disulfide	2.4	D
Dichlorodifluoromethane	1.5	D
Ethylbenzene	5.1	D
M,P-Xylene	27	D
Methyl Ethyl Ketone (2-Butanone)	41	D
n-Heptane	1.8	D
n-Hexane	1.2	D
o-Xylene (1,2-Dimethylbenzene)	6.2	D
Propylene	6	D
Styrene	0.64	D
Tetrachloroethene (TCE)	4.1	D
Toluene	10	D
Trichlorofluoromethane (Freon 11)	1	D
<b>Methane (µg/m³)</b>		
Methane	ND	

BLOCK 3245  
LOT 3

RIVER

HARLEM

U. S. PIERHEAD AND BULKHEAD LINE

MAJOR DEEGAN EXPRESSWAY

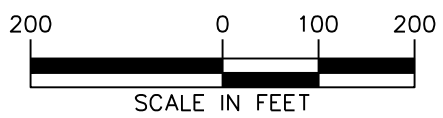
Analyte	NYSDOH AGV
<b>VOCs (µg/m³)</b>	
1,2,4-Trimethylbenzene	~
1,3,5-Trimethylbenzene (Mesitylene)	~
2-Hexanone	~
4-Ethyltoluene	~
Acetone	~
Benzene	~
Carbon Disulfide	~
Dichlorodifluoromethane	~
Ethylbenzene	~
M,P-Xylene	~
Methyl Ethyl Ketone (2-Butanone)	~
n-Heptane	~
n-Hexane	~
o-Xylene (1,2-Dimethylbenzene)	~
Propylene	~
Styrene	~
Tetrachloroethene (TCE)	30
Toluene	~
Trichlorofluoromethane (Freon 11)	~
<b>Methane (µg/m³)</b>	
Methane	~

**LEGEND:**

- BLOCK No. 3244, LOT No. 1 AND BLOCK No. 3245, LOT No. 3
- TAX LOT BOUNDARY
- APPROXIMATE EXTENT OF METRO-NORTH RAILROAD
- SV-21 SOIL VAPOR PROBE
- SP/MW/SV-11 CO-LOCATED SOIL BORING, TEMPORARY MONITORING WELL AND SOIL VAPOR PROBE (2018 PHASE II ESI)

**GENERAL NOTES:**

1. SOIL VAPOR SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH) AIR GUIDELINE VALUES (AGVs).
2. EXISTING INFORMATION TAKEN FROM TOPOGRAPHIC AND BOUNDARY SURVEY PREPARED BY FEHRINGER SURVEYING, P.C., DATED 14 MARCH 2011.
3. ALL SAMPLE LOCATIONS ARE APPROXIMATE.
4. ALL ELEVATIONS ARE SHOWN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
5. VOC = VOLATILE ORGANIC COMPOUND
6. ONLY DETECTED VOCs ARE SHOWN.
7. NO ANALYTES EXCEEDED NYSDOH AGVs
8. µg/m³ = MICROGRAMS PER CUBIC METER
9. FT = FEET
10. ND = NOT DETECTED.
11. D = RESULT IS FROM AN ANALYSIS THAT REQUIRED A DILUTION.



 Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com	<b>Project</b> <b>CSX PARCEL</b> BLOCK No. 3244, LOT No. 1 BLOCK No. 3245, LOT No. 3 BRONX NEW YORK	<b>Figure Title</b> <b>SOIL VAPOR          SAMPLE LOCATION          AND RESULTS MAP</b>	<b>Project No.</b> 170502901 <b>Date</b> 12/28/2018 <b>Drawn By</b> SS <b>Checked By</b> JL	<b>Figure No.</b> <span style="font-size: 2em;">3</span> Sheet 3 of 3
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## **Tables**

**Table 1**  
**Supplemental Subsurface Investigation**  
**Soil Sample Analytical Results**

**CSX Parcel**  
**Bronx, New York**  
**Langan Project No.: 170502901**

**Notes:**

1. Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use and Restricted Use Restricted - Residential Soil Cleanup Objectives (SCO).
2. Only detected analytes are shown in the table.
3. Analytes detected with concentrations above Unrestricted Use SCOs are bolded.
4. Analytes detected with concentrations above Restricted Use Restricted-Residential SCOs are bolded and shaded.
5. Analytical results with reporting limits (RL) above Unrestricted Use SCOs are italicized.
6. ~ = Regulatory limit for this analyte does not exist
7. bgs = below grade surface
8. mg/kg = milligrams per kilogram
9. % = percent
10. ND = Not detected

**Qualifiers:**

D = The concentration reported is a result of a diluted sample.

J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

B = The analyte was found in the associated analysis batch blank.

**Table 1**  
**Supplemental Subsurface Investigation**  
**Soil Sample Analytical Results**

**CSX Parcel**  
**Bronx, New York**  
**Langan Project No.: 170502901**

Location Sample ID Laboratory ID Sample Date Depth Range (feet bgs)	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use - Restricted Residential SCOs	SP21 SP21_3-5 18L0827-01 12/18/2018 3-5	SP21 SP21_8-10 18L0827-02 12/18/2018 8-10	SP21 SP21_13-15 18L0827-03 12/18/2018 13-15	SP22 SP22_3-5 18L0827-04 12/18/2018 3-5	SP22 SP22_9-11 18L0827-05 12/18/2018 9-11
<b>Volatile Organic Compounds (mg/kg)</b>							
Acetone	0.05	100	0.0053 U	0.014 U	0.02 J	0.0056 U	0.0051 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0026 U	0.0029 U	0.004 J	0.0028 U	0.0025 U
Methylene Chloride	0.05	100	0.012	0.017	0.014	0.0081 J	0.0051 U
<b>Semivolatile Organic Compounds (mg/kg)</b>							
2-Methylnaphthalene	~	~	0.0449 U	0.0446 U	0.0488 U	0.044 U	0.341 JD
Acenaphthene	20	100	0.0449 U	0.0446 U	0.0488 U	0.044 U	1.98 D
Anthracene	100	100	0.0449 U	0.0446 U	0.0488 U	0.044 U	6.39 D
Benzo(a)Anthracene	1	1	0.0687 JD	0.0446 U	0.0488 U	0.0891 D	<b>12.9</b> D
Benzo(a)Pyrene	1	1	0.122 D	0.0446 U	0.0488 U	0.0982 D	<b>10.4</b> D
Benzo(b)Fluoranthene	1	1	0.107 D	0.0446 U	0.0488 U	0.0926 D	<b>9.75</b> D
Benzo(g,h,i)Perylene	100	100	0.116 D	0.0446 U	0.0488 U	0.0814 JD	7.57 D
Benzo(k)Fluoranthene	0.8	3.9	0.0765 JD	0.0446 U	0.0488 U	0.0842 JD	<b>7.52</b> D
Carbazole	~	~	0.0449 U	0.0446 U	0.0488 U	0.044 U	1.45 D
Chrysene	1	3.9	0.0715 JD	0.0446 U	0.0488 U	0.107 D	<b>12</b> D
Dibenz(a,h)Anthracene	0.33	0.33	0.0449 U	0.0446 U	0.0488 U	0.044 U	<b>2.64</b> D
Dibenzofuran	7	59	0.0449 U	0.0446 U	0.0488 U	0.044 U	1.25 D
Fluoranthene	100	100	0.0715 JD	0.0446 U	0.0488 U	0.114 D	31.4 D
Fluorene	30	100	0.0449 U	0.0446 U	0.0488 U	0.044 U	1.49 D
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.118 D	0.0446 U	0.0488 U	0.0758 JD	<b>8.13</b> D
Naphthalene	12	100	0.0449 U	0.0446 U	0.0488 U	0.044 U	0.29 JD
Phenanthrene	100	100	0.0449 U	0.0446 U	0.0488 U	0.0617 JD	27.5 D
Pyrene	100	100	0.0916 D	0.0446 U	0.0488 U	0.147 D	30.2 D
<b>Pesticides (mg/kg)</b>							
Total Pesticides	~	~	ND	ND	ND	ND	ND
<b>Polychlorinated Biphenyls (mg/kg)</b>							
Total Polychlorinated Biphenyls	0.1	1	ND	ND	ND	ND	ND
<b>Inorganics (mg/kg)</b>							
Aluminum	~	~	11500	10400	13600	2790	9950
Arsenic	13	16	2.58	1.61 U	2.4	2.89	1.85
Barium	350	400	161	191	113	6.88	87.8
Beryllium	7.2	72	0.054 U	0.054 U	0.121	0.066	0.055 U
Cadmium	2.5	4.3	0.603	0.322 U	0.352 U	0.316 U	0.361
Calcium	~	~	36600	2850	1850	166000	13100
Chromium, Total	~	~	21.9	9.33	19.8	7.22	72.2
Chromium, Trivalent	30	180	20.4	8.69	16.9	6.85	<b>66.1</b>
Cobalt	~	~	10.1	8.25	10.3	3.73	9.96
Copper	50	270	<b>75.3</b>	23.8	24.6	7.6	48.2
Iron	~	~	20000	17400	15400	6160	17100
Lead	63	400	<b>157</b>	7.09	32.7	5.62	38.8
Magnesium	~	~	19700	3910	3790	87400	7480
Manganese	1600	2000	303	365	206	126	212
Mercury	0.18	0.81	<b>0.218</b>	0.0322 U	<b>0.261</b>	0.036	<b>0.332</b>
Nickel	30	310	19.5	6.28	15.6	8.33	29.1
Potassium	~	~	3670 B	4060 B	1800 B	2020 B	4680 B
Selenium	3.9	180	2.69 U	2.68 U	2.93 U	<b>27.7</b>	2.73 U
Sodium	~	~	1340	741	1580	63.8	323
Vanadium	~	~	46.8	21.5	27.9	8.98	37.3
Zinc	109	10000	<b>110</b>	49.7	41.4	9.24	83.9
<b>General Chemistry (%)</b>							
Solids, Percent	~	~	92.8	93.2	85.3	94.9	91.5

**Table 2**  
**Supplemental Subsurface Investigation**  
**Groundwater Sample Analytical Results**

**CSX Parcel**  
**Bronx, New York**  
**Langan Project No.: 170502901**

**Notes:**

1. Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards (AWQS) and Guidance Values (GV) for Class GA Groundwater (TOGS AWQS/GV).
2. Only detected analytes are shown in the table.
3. Analytes detected with concentrations above NYSDEC SGVs are bolded and shaded.
4. Analytical results with reporting limits (RL) above NYSDEC SGVs are italicized.
5. ~ = Regulatory limit for this analyte does not exist
6. µg/l = micrograms per liter
7. NA = Not Analyzed
8. ND = Not Detected

**Qualifiers:**

D = The concentration reported is a result of a diluted sample.

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

J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

B = Analyte found in the analysis batch blank

**Table 2**  
**Supplemental Subsurface Investigation**  
**Groundwater Sample Analytical Results**

**CSX Parcel**  
**Bronx, New York**  
**Langan Project No.: 170502901**

Location		TMW21		TMW22	
Sample ID	TOGS	TMW21_121818		TMW22_121818	
Laboratory ID	AWQS/GV	18L0827-06		18L0827-07	
Sample Date		12/18/2018		12/18/2018	
<b>Volatile Organic Compounds (µg/l)</b>					
Isopropylbenzene (Cumene)	5	0.2	U	0.39	J
<b>Semivolatile Organic Compounds (µg/l)</b>					
Acenaphthene	20	0.0556	U	0.0889	
Anthracene	50	0.0556	U	0.133	
Fluoranthene	50	0.0556	U	0.167	
Fluorene	50	0.0556	U	0.0667	
Naphthalene	10	0.0556	U	0.0667	
Phenanthrene	50	0.0556	U	0.467	
Pyrene	50	0.0556	U	0.156	
<b>Polychlorinated Biphenyls (µg/l)</b>					
Total Polychlorinated Biphenyls	0.09	ND		ND	
<b>Inorganics (µg/l)</b>					
Aluminum	~	199		5,180	
Arsenic	25	1.58		2.83	
Arsenic (Dissolved)	25	1.5		1.11	U
Barium	1,000	27.8	U	214	
Barium (Dissolved)	1,000	27.8	U	114	
Cadmium	5	0.556	U	<b>12.8</b>	
Cadmium (Dissolved)	5	0.556	U	<b>12.8</b>	
Calcium	~	93,800		22,100	
Calcium (Dissolved)	~	94,200		20,800	
Chromium, Total	50	5.56	U	26.8	
Cobalt	~	4.44	U	25.9	
Cobalt (Dissolved)	~	4.44	U	22.7	
Copper	200	22.2	U	45.5	
Copper (Dissolved)	200	22.2	U	35.9	
Iron	300	278	U	<b>7,690</b>	
Magnesium	35,000	<b>207,000</b>		<b>39,800</b>	
Magnesium (Dissolved)	35,000	<b>218,000</b>		<b>38,000</b>	
Manganese	300	13.6		<b>3,070</b>	
Manganese (Dissolved)	300	8.71		<b>2,790</b>	
Nickel	100	11.1	U	43.8	
Nickel (Dissolved)	100	11.1	U	30.1	
Potassium	~	77,000	B	21,800	B
Potassium (Dissolved)	~	80,200	B	20,500	B
Selenium	10	<b>16</b>	D	<b>12.2</b>	D
Sodium	20,000	<b>3,250,000</b>	D	<b>1,290,000</b>	
Sodium (Dissolved)	20,000	<b>2,030,000</b>	E	<b>1,060,000</b>	
Vanadium	~	11.1	U	19.5	
Zinc	2,000	27.8	U	33.3	
Zinc (Dissolved)	2,000	218		27.8	U

**Table 3**  
**Supplemental Subsurface Investigation**  
**Soil Vapor Sample Analytical Results**

**CSX Parcel**  
**Bronx, New York**  
**Langan Project No.: 170502901**

**Notes:**

1. Soil vapor sample analytical results are compared to the New York State Department of Health Air Guideline Values (AGVs).
2. Only detected analytes are shown in the table.
3. No analytes were detected above the NYSDOH AGVs.
4. ~ = Regulatory limit for this analyte does not exist
5.  $\mu\text{g}/\text{m}^3$  = micrograms per cubic meter
6. SV = soil vapor

**Qualifiers:**

D = The concentration reported is a result of a diluted sample.



**Table 3**  
**Supplemental Subsurface Investigation**  
**Soil Vapor Sample Analytical Results**

**CSX Parcel**  
**Bronx, New York**  
**Langan Project No.: 170502901**

Location Sample ID Laboratory ID Sample Date Sample Type	NYSDOH AGVs	SV21 SV21_121818 18L0829-01 12/18/2018 SV
<b>Volatile Organic Compounds (µg/m³)</b>		
1,2,4-Trimethylbenzene	~	11 D
1,3,5-Trimethylbenzene (Mesitylene)	~	2.1 D
2-Hexanone	~	7 D
4-Ethyltoluene	~	14 D
Acetone	~	9 D
Benzene	~	0.79 D
Carbon Disulfide	~	2.4 D
Dichlorodifluoromethane	~	1.5 D
Ethylbenzene	~	5.1 D
M,P-Xylene	~	27 D
Methyl Ethyl Ketone (2-Butanone)	~	41 D
n-Heptane	~	1.8 D
n-Hexane	~	1.2 D
o-Xylene (1,2-Dimethylbenzene)	~	6.2 D
Propylene	~	6 D
Styrene	~	0.64 D
Tetrachloroethene (PCE)	30	4.1 D
Toluene	~	10 D
Trichlorofluoromethane	~	1 D
<b>General Chemistry (µg/m³)</b>		
Methane	~	9000 U

**Attachment 1**  
**Soil Boring Logs**

\\LANGAN.COM\DATA\ANY\DATA9\170502901\PROJECT DATA\DISCIPLINE\ENVIRONMENTAL\GINTLOGS\320 W. FORDHAM RD. - CSX PARCEL.GPJ ... 1/11/2019 3:05:41 PM ... Report: Log - LANGAN

Project CSX Parcel				Project No. 170502901			
Location 320 West Fordham Road, Bronx, NY				Elevation and Datum NA			
Drilling Company AARCO Environmental Services Corp.				Date Started 12/18/18		Date Finished 12/18/18	
Drilling Equipment Geoprobe 7822DT				Completion Depth 19 ft		Rock Depth NA	
Size and Type of Bit 2-inch Direct Push				Number of Samples 4		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ 9.5		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Daybi Pacheco	
Sampler 4-foot Macrocore				Field Engineer Katherine Racanelli			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist. BU/in		
	0	CONCRETE			AIRROTARY	NA			AARCO begins drilling through concrete slab with air hammer
	1								
	2								
	3	R1a (0-17) Grey to brown fine SAND, trace fine gravel, concrete, slag, coal, brick (dry) [FILL]						0.0	Soil sample collected SP21_3-5 at 1015
	4	R1b (17-20) CONCRETE (dry) [FILL]		R1	MC	20/48		0.0	
	5							0.0	
	6							0.0	
	7	R2a (0-11) Grey to brown fine SAND, trace fine gravel (dry) [FILL]						0.0	Soil sample collected SP21_8-10 at 1020
	8	R2b (11-29) CONCRETE, some gravel, trace fine sand		R2	MC	33/48		0.3	
	9							0.0	
	10	R2c (29-33) Brown fine SAND, trace silt, trace fine gravel (wet) [FILL]						0.0	
	11							0.0	
	12	R3 (0-28) Brown fine SAND, trace silt, wood (wet) [FILL]						0.0	Stained wood observed, no odor
	13			R3	MC	28/48		0.0	Soil sample collected SP21_13-15 at 1200
	14							0.0	
	15							0.0	
	16	R4a (0-3) Brown coarse SAND (wet)						0.0	
	17	R4b (3-20) Brown silty SAND (wet)		R4	MC	20/48		0.0	
	18							0.0	
	19							0.0	
			20						End of boring at 19 feet bgs. TMW21 screen installed 6-16 feet bgs. 6 foot riser.

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Project CSX Parcel				Project No. 170502901			
Location 320 West Fordham Road, Bronx, NY				Elevation and Datum NA			
Drilling Company AARCO Environmental Services Corp.				Date Started 12/18/18		Date Finished 12/18/18	
Drilling Equipment Geoprobe 7822DT				Completion Depth 19 ft		Rock Depth NA	
Size and Type of Bit 2-inch Direct Push				Number of Samples		Disturbed 4	Undisturbed NA
Casing Diameter (in) NA				Casing Depth (ft) NA		Water Level (ft.) First 10	Completion NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Daybi Pacheco	
Sampler 4-foot Macrocore				Field Engineer Katherine Racanelli			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist. BU/in		
	0	CONCRETE	0						AARCO begins drilling through concrete slab with air hammer  Soil sample collected SP22_3-5 at 1130  Soil sample collected SP22_9-11 at 1135  End of boring at 19 feet bgs. TMW22 screen installed 6-16 feet bgs. 6 foot riser.
	1		1		AIRROTARY	NA			
	2		2						
	3	R1 (0-15) Beige to grey fine SAND, trace brick (dry) [FILL]	3					0.1	
	4		4					0.0	
	5		5	R1	MC	15/48			
	6		6						
	7		7						
	8		8						
	9	R2a (0-7) Brown fine SAND, trace fine gravel (moist) [FILL] R2b (7-11) Black fine SAND (moist) [FILL]	9	R2	MC	26/48		0.0	
	10	R2c (11-26) Brown medium to fine SAND, trace silt (wet) [FILL]	10					0.0	
	11		11					0.0	
	12		12						
	13	R3a (0-16) Brown medium SAND, mica (wet) [FILL]	13	R3	MC	30/48		0.0	
	14	R3b (16-18) CONCRETE (wet) [FILL]	14					0.0	
	15	R3c (18-30) Brown medium SAND, mica (wet)	15					0.0	
	16		16						
	17	R4 (0-39) Brown medium SAND, trace silt, trace fine gravel, mica	17	R4	MC	39/48		0.0	
	18		18					0.0	
	19		19					0.0	
20		20					0.0		

**Attachment 2**  
**Groundwater Sampling Logs**

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	CSX Parcel	Well No:	TMW-21	Water Quality Device Model:	Horiba U52	Weather:	32°F, Sunny	Sample(s):	TMW21_121818
Project Number:	170502901	Well Depth:	16.9	Pine Number:	26405	Background PID (ppm):	0.1		
Site Location:	320 West Fordham Road, Bronx, NY	Well Diameter:	1-inch	Pump Make and Model:	Peristaltic Pump	PID Beneath Inner Cap (ppm):	0.1	Sample Date:	12/18/2018
Sampling Personnel:	K. Wexler K. Racanelli	Well Screen Interval:	6.9 16.9	Pine Number:	10984	Pump Intake Depth:	15.50	Sample Time:	12:55
				Tubing Diameter:	1/4" ID 3/8" OD	Depth to Water Before Purge:	12.70		

*STABILIZATION = 3 successive readings within limits*

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
<b>BEGIN PURGING</b>											
12:30	7.14	6.53	190	11.00	4.6	6.29	NA		0.75	clear, no odor	N/A
12:35	7.36	6.93	183	10.90	2.70	6.15	NA	0.15	1.5		N/A
12:40	7.41	7.06	182	10.80	2.60	7.41	NA	0.1	2		N
12:45	7.46	7.11	182	10.70	2.40	7.57	NA	0.1	2.5		N
12:50	7.51	7.13	183	10.70	1.60	7.35	NA	0.1	3		Y
12:55								0.6			N
13:00											N
13:05											N
13:10											N
13:15											N
13:20											N
13:25											N
13:30											N
13:35											N
13:40											N
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- Notes:**
- Well depths and groundwater depths were measured in feet below the top of well casing.
  - Well and tubing diameters are measured in inches.
  - PID = Photoionization Detector
  - PPM = Parts per million
  - pH = Hydrogen ion concentration
  - ORP = Oxidation-reduction potential, measured in millivolts (mV)
  - DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
  - DTW = Depth to water
  - mS/cm = milli-Siemans per centimeter
  - NTU = Nephelometric Turbidity Unit
  - NA = TMW-21 not gauged during sampling due to the size of the temporary well (1-inch)

Project Information		Well Information		Equipment Information		Sampling Conditions			Sampling Information		
Project Name:	CSX Parcel	Well No:	TMW-22	Water Quality Device Model:	Horiba U52	Weather:	32°F, Sunny		Sample(s):	TMW22_121818	
Project Number:	170502901	Well Depth:	16.01	Pine Number:	26405	Background PID (ppm):	0.1				
Site Location:	320 W Fordham Road, Bronx, NY	Well Diameter:	1-inch	Pump Make and Model:	Peristaltic Pump	PID Beneath Inner Cap (ppm):	0.1		Sample Date:	12/18/2018	
Sampling Personnel:	K. Wexler	Well Screen Interval:	6.01	Pine Number:	10984	Pump Intake Depth:	17.00		Sample Time:	14:25	
	K. Racanelli		16.01	Tubing Diameter:	1/4" ID 3/8" OD	Depth to Water Before Purge:	12.41				
<b>STABILIZATION = 3 successive readings within limits</b>											
TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
<b>BEGIN PURGING</b>											
13:55	9.47	7.21	-116	5.03	0.0	4.58	NA		1.75	brown turbid, no odor	N/A
14:00	11.16	7.16	-181	4.78	800.00	2.82	NA	0.05	2		N/A
14:05	11.61	7.17	-193	4.75	367.00	2.56	NA	0.1	2.5		N
14:10	11.78	7.15	-193	4.79	239.00	2.52	NA	0.06	2.8		N
14:15	11.84	7.13	-192	4.80	262.00	2.48	NA	0.09	3.25	clear	N
14:20	12.05	7.12	-189	4.82	250.00	2.49	NA	0.1	3.75		Y
14:25								0.75			N
14:30											N
14:35											N
14:40											N
14:45											N
14:50											N
14:55											N
15:00											N
15:05											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N

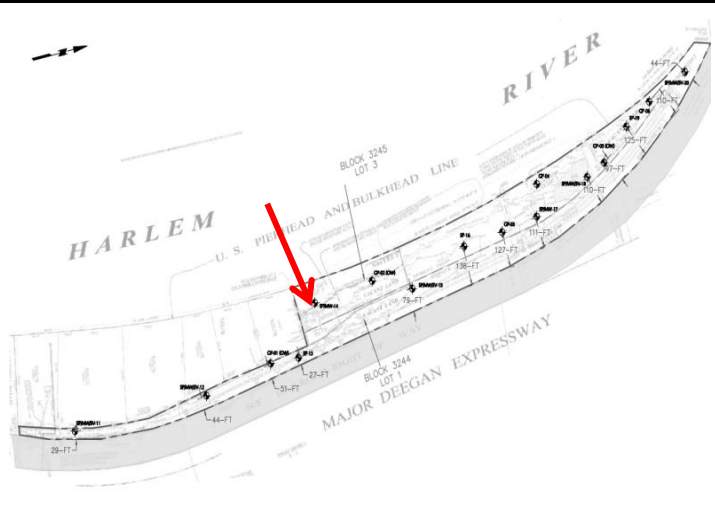
- Notes:**
- Well depths and groundwater depths were measured in feet below the top of well casing.
  - Well and tubing diameters are measured in inches.
  - PID = Photoionization Detector
  - PPM = Parts per million
  - pH = Hydrogen ion concentration
  - ORP = Oxidation-reduction potential, measured in millivolts (mV)
  - DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
  - DTW = Depth to water
  - mS/cm = milli-Siemans per centimeter
  - NTU = Nephelometric Turbidity Unit
  - TMW-22 not gauged during sampling due to the size of the temporary well (1-inch)

**Attachment 3**  
**Soil Vapor Sampling Logs**

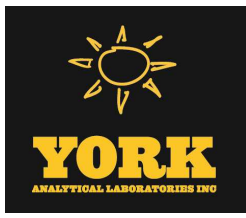


## SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV21\_121818

<b>PROJECT:</b> CSX Parcel		<b>PROJECT NO.:</b> 170502901																							
<b>LOCATION:</b> 320 W Fordham Road, Bronx, NY 10468		<b>SURFACE ELEVATION AND DATUM:</b> 10'																							
<b>DRILLING FIRM OR LANGAN INSTALLER:</b> AARCO Environmental Services, Corp.		<b>INSTALLATION DATE STARTED:</b> 12/18/2018	<b>DATE FINISHED:</b> 12/18/2018																						
<b>INSTALLATION FOREMAN:</b> Daybi Pacheco		<b>SAMPLE DATE STARTED:</b> 12/18/2018	<b>DATE FINISHED:</b> 12/18/2018																						
<b>INSTALLATION EQUIPMENT:</b> Geoprobe® 7822 DT		<b>TYPE OF SAMPLING DEVICE:</b> 6-Liter Summa Canister																							
<b>INSPECTOR:</b> K. Racanelli		<b>SAMPLER:</b> K. Racanelli																							
<b>POTENTIAL SAMPLE INTERFERENCES:</b> None observed		<b>WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):</b> Temp: 34° F Wind: 15-20 mph E Precipitation: None Pressure: 30.03" Hg																							
<b>METHOD OF INSTALLATION AND PURGING:</b> Advance Geoprobe 7822 DT to 4 feet below grade surface (bgs), install 2-inch soil vapor probe, backfill with No. 2 sand to 1 feet bgs, seal with hydrated bentonite to 0 feet bgs, and seal to surface with hydrated bentonite.																									
<b>TUBING TYPE/DIAMETER:</b> 1/4-Inch Teflon-lined Polyethylene Tubing		<b>TYPE OF MATERIAL ABOVE SEAL:</b> backfill																							
<b>IMPLANT SCREEN TYPE/LENGTH/DIAMETER:</b> 2-Inch Polyethylene Probe		<b>SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):</b> Bentonite																							
<b>BOREHOLE DIAMETER:</b> 2 inch		<b>FILTER PACK MATERIAL (Sand or Glass Beads):</b> No. 2 Sand																							
<b>PURGE VOLUME (L):</b> 1.00		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">IMPLANT/PROBE DETAILS</th> <th style="text-align: center;">DEPTH</th> <th rowspan="2" style="text-align: center;">NOTES</th> </tr> <tr> <th colspan="2" style="text-align: center;">(SEAL, FILTER, ETC.)</th> <th style="text-align: center;">(FEET FROM SURFACE)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">SURFACE</td> <td style="text-align: center;">SURFACE</td> <td style="text-align: center;">SURFACE</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">Top of Seal</td> <td style="text-align: center;">0.00</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">Top of Pack</td> <td style="text-align: center;">1.00</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">Probe Depth</td> <td style="text-align: center;">4.00</td> <td></td> </tr> </tbody> </table>	IMPLANT/PROBE DETAILS		DEPTH	NOTES	(SEAL, FILTER, ETC.)		(FEET FROM SURFACE)	SURFACE	SURFACE	SURFACE			Top of Seal	0.00			Top of Pack	1.00			Probe Depth	4.00	
IMPLANT/PROBE DETAILS			DEPTH	NOTES																					
(SEAL, FILTER, ETC.)			(FEET FROM SURFACE)																						
SURFACE	SURFACE		SURFACE																						
	Top of Seal		0.00																						
	Top of Pack		1.00																						
	Probe Depth		4.00																						
<b>PURGE FLOW RATE (ML/MIN):</b> 200																									
<b>PID AFTER PURGE (PPM):</b> 0.2																									
<b>HELIUM TESTS</b>																									
Pre-sampling	Post-sampling																								
15.3%	17.2%																								
<b>HELIUM TEST IN BUCKET(%):</b> 0.0%																									
<b>HELIUM TEST IN TUBE (PPM):</b> 0.0%																									
<b>SAMPLE START TIME:</b> 11:35																									
<b>SAMPLE STOP TIME:</b> 13:31																									
<b>TOTAL SAMPLE TIME (MIN):</b> 116																									
<b>REGULATOR FLOW RATE (L/MIN):</b> 0.11																									
<b>VOLUME OF SAMPLE (LITERS):</b> 1.28																									
<b>PID AFTER SAMPLE (PPM):</b> 0.2																									
<b>SAMPLE MOISTURE CONTENT:</b> NA																									
<b>CAN SERIAL NUMBER:</b> Y50																									
<b>REGULATOR SERIAL NUMBER:</b> 7416																									
<b>CAN START VACUUM PRESS. (" HG):</b> -28.75																									
<b>CAN STOP VACUUM PRESS. (" HG):</b> -2.33																									
<b>SAMPLE LOCATION SKETCH</b>																									
																									
<b>NOTES</b>																									
<p><b>Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.</b> 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727</p>																									

**Attachment 4**  
**Laboratory Analytical Reports**



# Technical Report

prepared for:

**Langan Engineering & Environmental Services (NYC)**

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

**Attention: Julia Leung**

Report Date: 12/27/2018

**Client Project ID: 170502901 320 W. Fordham Rd Bronx NY**

York Project (SDG) No.: 18L0827



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: 12/27/2018  
Client Project ID: 170502901 320 W. Fordham Rd Bronx NY  
York Project (SDG) No.: 18L0827

**Langan Engineering & Environmental Services (NYC)**  
21 Penn Plaza, 360 West 31st Street  
New York NY, 10001  
Attention: Julia Leung

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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 December 19, 2018 and listed below. The project was identified as your project: **170502901 320 W. Fordham Rd Bronx NY.**

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

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

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

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
18L0827-01	SP21_3-5	Soil	12/18/2018	12/19/2018
18L0827-02	SP21_8-10	Soil	12/18/2018	12/19/2018
18L0827-03	SP21_13-15	Soil	12/18/2018	12/19/2018
18L0827-04	SP22_3-5	Soil	12/18/2018	12/19/2018
18L0827-05	SP22_9-11	Soil	12/18/2018	12/19/2018
18L0827-06	TMW21_121818	Water	12/18/2018	12/19/2018
18L0827-07	TMW22_121818	Water	12/18/2018	12/19/2018
18L0827-08	TB06_121818	Water	12/18/2018	12/19/2018

## **General Notes for York Project (SDG) No.: 18L0827**

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:** 12/27/2018





### Sample Information

**Client Sample ID:** SP21\_3-5

**York Sample ID:** 18L0827-01

<u>York Project (SDG) No.</u> 18L0827	<u>Client Project ID</u> 170502901 320 W. Fordham Rd Bronx NY	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 18, 2018 10:15 am	<u>Date Received</u> 12/19/2018
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**Volatiles, 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		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/21/2018 12:30	12/22/2018 18:58	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/21/2018 12:30	12/22/2018 18:58	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.053	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS



### Sample Information

**Client Sample ID:** SP21\_3-5

**York Sample ID:** 18L0827-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 10:15 am

12/19/2018

**Volatiles, 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		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
67-64-1	Acetone	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
107-02-8	Acrolein	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS



### Sample Information

**Client Sample ID:** SP21\_3-5

**York Sample ID:** 18L0827-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 10:15 am

12/19/2018

**Volatiles, 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
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
75-09-2	<b>Methylene chloride</b>	<b>0.012</b>		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0026	0.026	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS





### Sample Information

**Client Sample ID:** SP21\_3-5

**York Sample ID:** 18L0827-01

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170502901 320 W. Fordham Rd Bronx NY

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12/19/2018

**Volatiles, 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		mg/kg dry	0.0026	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 18:58	SS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0079	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/21/2018 12:30	12/22/2018 18:58	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	104 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	107 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	108 %			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		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH



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12/19/2018

**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
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
62-53-3	Aniline	ND		mg/kg dry	0.179	0.358	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
92-87-5	Benzidine	ND		mg/kg dry	0.179	0.358	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
56-55-3	<b>Benzo(a)anthracene</b>	<b>0.0687</b>	J	mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH



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12/19/2018

**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
50-32-8	<b>Benzo(a)pyrene</b>	<b>0.122</b>		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>0.107</b>		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>0.116</b>		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
207-08-9	<b>Benzo(k)fluoranthene</b>	<b>0.0765</b>	J	mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
218-01-9	<b>Chrysene</b>	<b>0.0715</b>	J	mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
206-44-0	<b>Fluoranthene</b>	<b>0.0715</b>	J	mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH



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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
86-73-7	Fluorene	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>0.118</b>		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
108-95-2	Phenol	ND		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
129-00-0	<b>Pyrene</b>	<b>0.0916</b>		mg/kg dry	0.0449	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH
110-86-1	Pyridine	ND		mg/kg dry	0.179	0.358	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 09:57	KH

**Surrogate Recoveries**

**Result**

**Acceptance Range**

367-12-4	Surrogate: SURR: 2-Fluorophenol	49.2 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	48.8 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	44.1 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	47.6 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	67.4 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	60.2 %	24-116



### Sample Information

**Client Sample ID:** SP21\_3-5

**York Sample ID:** 18L0827-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

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18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 10:15 am

12/19/2018

**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		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	12/24/2018 00:12	12/24/2018 23:24	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0355	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	12/24/2018 00:12	12/24/2018 23:24	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
72-20-8	Endrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	12/24/2018 00:12	12/24/2018 23:24	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00888	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM



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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
8001-35-2	Toxaphene	ND		mg/kg dry	0.0898	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:24	CM
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>						
2051-24-3	Surrogate: Decachlorobiphenyl	69.9 %		30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	59.0 %		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	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:24	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:24	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:24	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:24	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:24	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:24	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:24	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications:	12/24/2018 00:12	12/24/2018 11:24	TJD
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>						
877-09-8	Surrogate: Tetrachloro-m-xylene	56.4 %		30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	39.8 %		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	11500		mg/kg dry	5.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7440-36-0	Antimony	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7440-38-2	Arsenic	2.58		mg/kg dry	1.62	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML



### Sample Information

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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
7440-39-3	<b>Barium</b>	<b>161</b>		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7440-43-9	<b>Cadmium</b>	<b>0.603</b>		mg/kg dry	0.323	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7440-70-2	<b>Calcium</b>	<b>36600</b>		mg/kg dry	5.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7440-47-3	<b>Chromium</b>	<b>21.9</b>		mg/kg dry	0.539	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7440-48-4	<b>Cobalt</b>	<b>10.1</b>		mg/kg dry	0.431	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7440-50-8	<b>Copper</b>	<b>75.3</b>		mg/kg dry	2.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7439-89-6	<b>Iron</b>	<b>20000</b>		mg/kg dry	26.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7439-92-1	<b>Lead</b>	<b>157</b>		mg/kg dry	0.539	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7439-95-4	<b>Magnesium</b>	<b>19700</b>		mg/kg dry	5.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7439-96-5	<b>Manganese</b>	<b>303</b>		mg/kg dry	0.539	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7440-02-0	<b>Nickel</b>	<b>19.5</b>		mg/kg dry	1.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7440-09-7	<b>Potassium</b>	<b>3670</b>	B	mg/kg dry	5.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7782-49-2	Selenium	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7440-22-4	Silver	ND		mg/kg dry	0.539	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7440-23-5	<b>Sodium</b>	<b>1340</b>		mg/kg dry	53.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7440-28-0	Thallium	ND		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7440-62-2	<b>Vanadium</b>	<b>46.8</b>		mg/kg dry	1.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	KML
7440-66-6	<b>Zinc</b>	<b>110</b>		mg/kg dry	2.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:46	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
120 RESEARCH DRIVE		STRATFORD, CT 06615					132-02 89th AVENUE			RICHMOND HILL, NY 11418
www.YORKLAB.com		(203) 325-1371					FAX (203) 357-0166			ClientServices@yorklab.com



**Sample Information**

**Client Sample ID:** SP21\_3-5

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**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	0.218		mg/kg dry	0.0323	1	EPA 7473	12/20/2018 09:51	12/20/2018 12:34	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

**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	92.8		%	0.100	1	SM 2540G	12/21/2018 18:56	12/24/2018 10:08	MAC
							Certifications:	CTDOH		

**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	0.539	1	EPA 7196A	12/21/2018 08:27	12/21/2018 16:20	MAC
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

**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	20.4		mg/kg	0.500	1	Calculation	12/24/2018 15:53	12/24/2018 15:54	AD
							Certifications:			

**Cyanide, Total**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.539	1	EPA 9014/9010C	12/21/2018 08:50	12/21/2018 14:15	AD
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		





### Sample Information

**Client Sample ID:** SP21\_8-10

**York Sample ID:** 18L0827-02

York Project (SDG) No.

Client Project ID

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170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 10:20 am

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**Volatiles, 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		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/21/2018 12:30	12/22/2018 19:24	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/21/2018 12:30	12/22/2018 19:24	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.057	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
78-93-3	2-Butanone	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS



### Sample Information

**Client Sample ID:** SP21\_8-10

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170502901 320 W. Fordham Rd Bronx NY

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December 18, 2018 10:20 am

12/19/2018

**Volatiles, 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		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
67-64-1	<b>Acetone</b>	<b>0.014</b>		mg/kg dry	0.0057	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
107-02-8	Acrolein	ND		mg/kg dry	0.0057	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
71-43-2	Benzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
75-25-2	Bromoform	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
110-82-7	Cyclohexane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
74-95-3	Dibromomethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS



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170502901 320 W. Fordham Rd Bronx NY

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December 18, 2018 10:20 am

12/19/2018

**Volatiles, 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
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
79-20-9	Methyl acetate	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
75-09-2	<b>Methylene chloride</b>	<b>0.017</b>		mg/kg dry	0.0057	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
95-47-6	o-Xylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0057	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
100-42-5	Styrene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0029	0.029	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
108-88-3	Toluene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS



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170502901 320 W. Fordham Rd Bronx NY

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December 18, 2018 10:20 am

12/19/2018

**Volatiles, 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		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:24	SS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0086	0.017	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/21/2018 12:30	12/22/2018 19:24	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	105 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	100 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	105 %			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		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH



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170502901 320 W. Fordham Rd Bronx NY

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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
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
62-53-3	Aniline	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
92-87-5	Benzidine	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH



### Sample Information

**Client Sample ID:** SP21\_8-10

**York Sample ID:** 18L0827-02

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170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 10:20 am

12/19/2018

**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
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH



### Sample Information

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170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 10:20 am

12/19/2018

**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
86-73-7	Fluorene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
108-95-2	Phenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH
110-86-1	Pyridine	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:27	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: SURR: 2-Fluorophenol	50.3 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	48.3 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	45.0 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	42.2 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	67.0 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	56.6 %	24-116



### Sample Information

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**York Sample ID:** 18L0827-02

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18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 10:20 am

12/19/2018

**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		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	12/24/2018 00:12	12/24/2018 23:39	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0354	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	12/24/2018 00:12	12/24/2018 23:39	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
72-20-8	Endrin	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	12/24/2018 00:12	12/24/2018 23:39	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00177	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00884	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM





### Sample Information

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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
8001-35-2	Toxaphene	ND		mg/kg dry	0.0894	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:39	CM
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
2051-24-3	Surrogate: Decachlorobiphenyl	54.0 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	66.8 %	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	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:38	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:38	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:38	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:38	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:38	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:38	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:38	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications:	12/24/2018 00:12	12/24/2018 11:38	TJD
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	75.7 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	45.3 %	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	10400		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7440-36-0	Antimony	ND		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7440-38-2	Arsenic	ND		mg/kg dry	1.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML



### Sample Information

**Client Sample ID:** SP21\_8-10

**York Sample ID:** 18L0827-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 10:20 am

12/19/2018

**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
7440-39-3	<b>Barium</b>	<b>191</b>		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.322	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7440-70-2	<b>Calcium</b>	<b>2850</b>		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7440-47-3	<b>Chromium</b>	<b>9.33</b>		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7440-48-4	<b>Cobalt</b>	<b>8.25</b>		mg/kg dry	0.429	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7440-50-8	<b>Copper</b>	<b>23.8</b>		mg/kg dry	2.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7439-89-6	<b>Iron</b>	<b>17400</b>		mg/kg dry	26.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7439-92-1	<b>Lead</b>	<b>7.09</b>		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7439-95-4	<b>Magnesium</b>	<b>3910</b>		mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7439-96-5	<b>Manganese</b>	<b>365</b>		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7440-02-0	<b>Nickel</b>	<b>6.28</b>		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7440-09-7	<b>Potassium</b>	<b>4060</b>	B	mg/kg dry	5.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7782-49-2	Selenium	ND		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7440-22-4	Silver	ND		mg/kg dry	0.537	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7440-23-5	<b>Sodium</b>	<b>741</b>		mg/kg dry	53.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7440-28-0	Thallium	ND		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7440-62-2	<b>Vanadium</b>	<b>21.5</b>		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	KML
7440-66-6	<b>Zinc</b>	<b>49.7</b>		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:48	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
120 RESEARCH DRIVE		STRATFORD, CT 06615					132-02 89th AVENUE			RICHMOND HILL, NY 11418
www.YORKLAB.com		(203) 325-1371					FAX (203) 357-0166			ClientServices@yorklab.com



### Sample Information

**Client Sample ID:** SP21\_8-10

**York Sample ID:** 18L0827-02

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 10:20 am

12/19/2018

**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	ND		mg/kg dry	0.0322	1	EPA 7473	12/20/2018 09:51	12/20/2018 12:43	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

**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	12/21/2018 18:56	12/24/2018 10:08	MAC
							Certifications:	CTDOH		

**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	0.537	1	EPA 7196A	12/21/2018 08:27	12/21/2018 16:20	MAC
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

**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	8.69		mg/kg	0.500	1	Calculation	12/24/2018 15:53	12/24/2018 15:54	AD
							Certifications:			

**Cyanide, Total**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.537	1	EPA 9014/9010C	12/21/2018 08:50	12/21/2018 14:15	AD
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		



### Sample Information

**Client Sample ID:** SP21\_13-15

**York Sample ID:** 18L0827-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 12:00 pm

12/19/2018

**Volatiles, 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		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/21/2018 12:30	12/22/2018 19:50	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/21/2018 12:30	12/22/2018 19:50	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.050	0.10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
78-93-3	<b>2-Butanone</b>	<b>0.0040</b>	J	mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS



### Sample Information

**Client Sample ID:** SP21\_13-15

**York Sample ID:** 18L0827-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 12:00 pm

12/19/2018

**Volatiles, 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		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
67-64-1	<b>Acetone</b>	<b>0.020</b>		mg/kg dry	0.0050	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
107-02-8	Acrolein	ND		mg/kg dry	0.0050	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
71-43-2	Benzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
75-25-2	Bromoform	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
110-82-7	Cyclohexane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
74-95-3	Dibromomethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS



### Sample Information

**Client Sample ID:** SP21\_13-15

**York Sample ID:** 18L0827-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 12:00 pm

12/19/2018

**Volatiles, 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
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
79-20-9	Methyl acetate	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
75-09-2	<b>Methylene chloride</b>	<b>0.014</b>		mg/kg dry	0.0050	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
95-47-6	o-Xylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0050	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
100-42-5	Styrene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0025	0.025	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
108-88-3	Toluene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS



### Sample Information

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170502901 320 W. Fordham Rd Bronx NY

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December 18, 2018 12:00 pm

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**Volatiles, 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		mg/kg dry	0.0025	0.0050	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 19:50	SS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0076	0.015	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/21/2018 12:30	12/22/2018 19:50	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	105 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	101 %			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		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0975	0.195	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0975	0.195	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0975	0.195	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH



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170502901 320 W. Fordham Rd Bronx NY

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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
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0975	0.195	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0975	0.195	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0975	0.195	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0975	0.195	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0975	0.195	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
62-53-3	Aniline	ND		mg/kg dry	0.195	0.390	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
92-87-5	Benzidine	ND		mg/kg dry	0.195	0.390	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH





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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
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0975	0.195	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0975	0.195	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH



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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
86-73-7	Fluorene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
108-95-2	Phenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH
110-86-1	Pyridine	ND		mg/kg dry	0.195	0.390	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 10:57	KH

**Surrogate Recoveries**

**Result**

**Acceptance Range**

367-12-4	Surrogate: SURR: 2-Fluorophenol	77.0 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	68.2 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	57.3 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	44.7 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	82.9 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	62.9 %	24-116



### Sample Information

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18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 12:00 pm

12/19/2018

**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		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	12/24/2018 00:12	12/24/2018 23:54	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0385	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	12/24/2018 00:12	12/24/2018 23:54	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
72-20-8	Endrin	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	12/24/2018 00:12	12/24/2018 23:54	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00193	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00964	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM



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18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 12:00 pm

12/19/2018

**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
8001-35-2	Toxaphene	ND		mg/kg dry	0.0975	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 23:54	CM
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
2051-24-3	Surrogate: Decachlorobiphenyl	42.0 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	61.1 %	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	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:52	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:52	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:52	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:52	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:52	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:52	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 11:52	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications:	12/24/2018 00:12	12/24/2018 11:52	TJD
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	78.2 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	46.3 %	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	13600		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7440-36-0	Antimony	ND		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7440-38-2	Arsenic	2.40		mg/kg dry	1.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML



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170502901 320 W. Fordham Rd Bronx NY

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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
7440-39-3	<b>Barium</b>	<b>113</b>		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7440-41-7	<b>Beryllium</b>	<b>0.121</b>		mg/kg dry	0.059	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.352	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7440-70-2	<b>Calcium</b>	<b>1850</b>		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7440-47-3	<b>Chromium</b>	<b>19.8</b>		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7440-48-4	<b>Cobalt</b>	<b>10.3</b>		mg/kg dry	0.469	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7440-50-8	<b>Copper</b>	<b>24.6</b>		mg/kg dry	2.35	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7439-89-6	<b>Iron</b>	<b>15400</b>		mg/kg dry	29.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7439-92-1	<b>Lead</b>	<b>32.7</b>		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7439-95-4	<b>Magnesium</b>	<b>3790</b>		mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7439-96-5	<b>Manganese</b>	<b>206</b>		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7440-02-0	<b>Nickel</b>	<b>15.6</b>		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7440-09-7	<b>Potassium</b>	<b>1800</b>	B	mg/kg dry	5.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7782-49-2	Selenium	ND		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7440-22-4	Silver	ND		mg/kg dry	0.586	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7440-23-5	<b>Sodium</b>	<b>1580</b>		mg/kg dry	58.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7440-28-0	Thallium	ND		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7440-62-2	<b>Vanadium</b>	<b>27.9</b>		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	KML
7440-66-6	<b>Zinc</b>	<b>41.4</b>		mg/kg dry	2.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:51	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
120 RESEARCH DRIVE		STRATFORD, CT 06615					132-02 89th AVENUE			RICHMOND HILL, NY 11418
www.YORKLAB.com		(203) 325-1371					FAX (203) 357-0166			ClientServices@yorklab.com



### Sample Information

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18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 12:00 pm

12/19/2018

**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	0.261		mg/kg dry	0.0352	1	EPA 7473	12/20/2018 09:51	12/20/2018 12:52	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

**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	85.3		%	0.100	1	SM 2540G	12/21/2018 18:56	12/24/2018 10:08	MAC
							Certifications:	CTDOH		

**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	12/21/2018 08:27	12/21/2018 16:20	MAC
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

**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	16.9		mg/kg	0.500	1	Calculation	12/24/2018 15:53	12/24/2018 15:54	AD
							Certifications:			

**Cyanide, Total**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.586	1	EPA 9014/9010C	12/21/2018 08:50	12/21/2018 14:15	AD
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		



### Sample Information

**Client Sample ID:** SP22\_3-5

**York Sample ID:** 18L0827-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 11:30 am

12/19/2018

**Volatiles, 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		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/24/2018 07:30	12/24/2018 18:44	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/24/2018 07:30	12/24/2018 18:44	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.056	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
78-93-3	2-Butanone	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS



### Sample Information

**Client Sample ID:** SP22\_3-5

**York Sample ID:** 18L0827-04

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 11:30 am

12/19/2018

**Volatiles, 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		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
67-64-1	Acetone	ND		mg/kg dry	0.0056	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
107-02-8	Acrolein	ND		mg/kg dry	0.0056	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
71-43-2	Benzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
75-25-2	Bromoform	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
110-82-7	Cyclohexane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
74-95-3	Dibromomethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS





### Sample Information

**Client Sample ID:** SP22\_3-5

**York Sample ID:** 18L0827-04

York Project (SDG) No.

Client Project ID

Matrix

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18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 11:30 am

12/19/2018

**Volatiles, 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
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
79-20-9	Methyl acetate	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
75-09-2	<b>Methylene chloride</b>	<b>0.0081</b>	J	mg/kg dry	0.0056	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
95-47-6	o-Xylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0056	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
100-42-5	Styrene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0028	0.028	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
108-88-3	Toluene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS



### Sample Information

**Client Sample ID:** SP22\_3-5

**York Sample ID:** 18L0827-04

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

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18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 11:30 am

12/19/2018

**Volatiles, 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		mg/kg dry	0.0028	0.0056	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:44	SS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0085	0.017	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/24/2018 07:30	12/24/2018 18:44	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	101 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	99.6 %			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		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0878	0.175	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0878	0.175	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0878	0.175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH



### Sample Information

**Client Sample ID:** SP22\_3-5

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York Project (SDG) No.

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18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 11:30 am

12/19/2018

**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
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0878	0.175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0878	0.175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0878	0.175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0878	0.175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0878	0.175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
62-53-3	Aniline	ND		mg/kg dry	0.176	0.351	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
92-87-5	Benzidine	ND		mg/kg dry	0.176	0.351	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
56-55-3	<b>Benzo(a)anthracene</b>	<b>0.0891</b>		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH



### Sample Information

**Client Sample ID:** SP22\_3-5

**York Sample ID:** 18L0827-04

York Project (SDG) No.

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Matrix

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18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 11:30 am

12/19/2018

**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
50-32-8	<b>Benzo(a)pyrene</b>	<b>0.0982</b>		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>0.0926</b>		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>0.0814</b>	J	mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
207-08-9	<b>Benzo(k)fluoranthene</b>	<b>0.0842</b>	J	mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0878	0.175	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
218-01-9	<b>Chrysene</b>	<b>0.107</b>		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.0878	0.175	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
206-44-0	<b>Fluoranthene</b>	<b>0.114</b>		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH



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170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 11:30 am

12/19/2018

**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
86-73-7	Fluorene	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>0.0758</b>	J	mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
85-01-8	<b>Phenanthrene</b>	<b>0.0617</b>	J	mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
108-95-2	Phenol	ND		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
129-00-0	<b>Pyrene</b>	<b>0.147</b>		mg/kg dry	0.0440	0.0878	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH
110-86-1	Pyridine	ND		mg/kg dry	0.176	0.351	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:27	KH

**Surrogate Recoveries**

**Result**

**Acceptance Range**

367-12-4	Surrogate: SURR: 2-Fluorophenol	50.0 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	49.6 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	43.0 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	40.6 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	60.6 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	54.8 %	24-116





### Sample Information

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**York Sample ID:** 18L0827-04

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18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 11:30 am

12/19/2018

**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		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	12/24/2018 00:12	12/25/2018 00:09	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0346	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	12/24/2018 00:12	12/25/2018 00:09	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
72-20-8	Endrin	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	12/24/2018 00:12	12/25/2018 00:09	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00173	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00866	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM



### Sample Information

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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
8001-35-2	Toxaphene	ND		mg/kg dry	0.0876	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:09	CM
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
2051-24-3	Surrogate: Decachlorobiphenyl	65.2 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	64.1 %	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	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 12:05	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 12:05	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 12:05	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 12:05	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 12:05	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 12:05	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 12:05	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications:	12/24/2018 00:12	12/24/2018 12:05	TJD
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	73.3 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	50.2 %	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	2790		mg/kg dry	5.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7440-36-0	Antimony	ND		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7440-38-2	Arsenic	2.89		mg/kg dry	1.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML



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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
7440-39-3	<b>Barium</b>	<b>6.88</b>		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7440-41-7	<b>Beryllium</b>	<b>0.066</b>		mg/kg dry	0.053	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.316	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7440-70-2	<b>Calcium</b>	<b>166000</b>		mg/kg dry	5.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7440-47-3	<b>Chromium</b>	<b>7.22</b>		mg/kg dry	0.527	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7440-48-4	<b>Cobalt</b>	<b>3.73</b>		mg/kg dry	0.421	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7440-50-8	<b>Copper</b>	<b>7.60</b>		mg/kg dry	2.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7439-89-6	<b>Iron</b>	<b>6160</b>		mg/kg dry	26.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7439-92-1	<b>Lead</b>	<b>5.62</b>		mg/kg dry	0.527	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7439-95-4	<b>Magnesium</b>	<b>87400</b>		mg/kg dry	5.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7439-96-5	<b>Manganese</b>	<b>126</b>		mg/kg dry	0.527	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7440-02-0	<b>Nickel</b>	<b>8.33</b>		mg/kg dry	1.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7440-09-7	<b>Potassium</b>	<b>2020</b>	B	mg/kg dry	5.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7782-49-2	<b>Selenium</b>	<b>27.7</b>		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7440-22-4	Silver	ND		mg/kg dry	0.527	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7440-23-5	<b>Sodium</b>	<b>63.8</b>		mg/kg dry	52.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7440-28-0	Thallium	ND		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7440-62-2	<b>Vanadium</b>	<b>8.98</b>		mg/kg dry	1.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	KML
7440-66-6	<b>Zinc</b>	<b>9.24</b>		mg/kg dry	2.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:53	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
120 RESEARCH DRIVE		STRATFORD, CT 06615					132-02 89th AVENUE			RICHMOND HILL, NY 11418
www.YORKLAB.com		(203) 325-1371					FAX (203) 357-0166			ClientServices@yorklab.com





### Sample Information

**Client Sample ID:** SP22\_3-5

**York Sample ID:** 18L0827-04

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 11:30 am

12/19/2018

**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	0.0360		mg/kg dry	0.0316	1	EPA 7473	12/20/2018 09:51	12/20/2018 13:01	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

**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	94.9		%	0.100	1	SM 2540G	12/21/2018 18:56	12/24/2018 10:08	MAC
							Certifications:	CTDOH		

**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	0.527	1	EPA 7196A	12/21/2018 08:27	12/21/2018 16:20	MAC
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

**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	6.85		mg/kg	0.500	1	Calculation	12/24/2018 15:53	12/24/2018 15:54	AD
							Certifications:			

**Cyanide, Total**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.527	1	EPA 9014/9010C	12/21/2018 08:50	12/21/2018 14:15	AD
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		



### Sample Information

**Client Sample ID:** SP22\_9-11

**York Sample ID:** 18L0827-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 11:35 am

12/19/2018

**Volatiles, 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	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/24/2018 07:30	12/24/2018 18:18	SS
79-00-5	1,1,2-Trichloroethane	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
87-61-6	1,2,3-Trichlorobenzene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
96-18-4	1,2,3-Trichloropropane	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/24/2018 07:30	12/24/2018 18:18	SS
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
106-93-4	1,2-Dibromoethane	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
78-87-5	1,2-Dichloropropane	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
123-91-1	1,4-Dioxane	ND	IS-LO	mg/kg dry	0.051	0.10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
78-93-3	2-Butanone	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS



### Sample Information

**Client Sample ID:** SP22\_9-11

**York Sample ID:** 18L0827-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 11:35 am

12/19/2018

**Volatiles, 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	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
108-10-1	4-Methyl-2-pentanone	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
67-64-1	Acetone	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
107-02-8	Acrolein	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
71-43-2	Benzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
75-27-4	Bromodichloromethane	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
75-25-2	Bromoform	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
108-90-7	Chlorobenzene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
74-87-3	Chloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
110-82-7	Cyclohexane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
124-48-1	Dibromochloromethane	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
74-95-3	Dibromomethane	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS



### Sample Information

**Client Sample ID:** SP22\_9-11

**York Sample ID:** 18L0827-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 11:35 am

12/19/2018

**Volatiles, 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
100-41-4	Ethyl Benzene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
87-68-3	Hexachlorobutadiene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
98-82-8	Isopropylbenzene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
79-20-9	Methyl acetate	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
108-87-2	Methylcyclohexane	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
104-51-8	n-Butylbenzene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
103-65-1	n-Propylbenzene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
95-47-6	o-Xylene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
179601-23-1	p- & m- Xylenes	ND	IS-LO	mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
99-87-6	p-Isopropyltoluene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
135-98-8	sec-Butylbenzene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
100-42-5	Styrene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0025	0.025	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
98-06-6	tert-Butylbenzene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
127-18-4	Tetrachloroethylene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
108-88-3	Toluene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
79-01-6	Trichloroethylene	ND	IS-LO	mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS



### Sample Information

**Client Sample ID:** SP22\_9-11

**York Sample ID:** 18L0827-05

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170502901 320 W. Fordham Rd Bronx NY

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December 18, 2018 11:35 am

12/19/2018

**Volatiles, 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		mg/kg dry	0.0025	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 18:18	SS
1330-20-7	Xylenes, Total	ND	IS-LO	mg/kg dry	0.0076	0.015	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/24/2018 07:30	12/24/2018 18:18	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	112 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	128 %	S-09		85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	164 %	S-09		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		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.454	0.906	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.454	0.906	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.454	0.906	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
91-57-6	<b>2-Methylnaphthalene</b>	<b>0,341</b>	J	mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH



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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
95-48-7	2-Methylphenol	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.454	0.906	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.454	0.906	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.454	0.906	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.454	0.906	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.454	0.906	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
83-32-9	<b>Acenaphthene</b>	<b>1.98</b>		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
62-53-3	Aniline	ND		mg/kg dry	0.908	1.82	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
120-12-7	<b>Anthracene</b>	<b>6.39</b>		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
92-87-5	Benzidine	ND		mg/kg dry	0.908	1.82	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
56-55-3	<b>Benzo(a)anthracene</b>	<b>12.9</b>		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH



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12/19/2018

**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
50-32-8	<b>Benzo(a)pyrene</b>	<b>10.4</b>		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>9.75</b>		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>7.57</b>		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
207-08-9	<b>Benzo(k)fluoranthene</b>	<b>7.52</b>		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.454	0.906	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
86-74-8	<b>Carbazole</b>	<b>1.45</b>		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
218-01-9	<b>Chrysene</b>	<b>12.0</b>		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
53-70-3	<b>Dibenzo(a,h)anthracene</b>	<b>2.64</b>		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
132-64-9	<b>Dibenzofuran</b>	<b>1.25</b>		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
122-39-4	Diphenylamine	ND		mg/kg dry	0.454	0.906	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
206-44-0	<b>Fluoranthene</b>	<b>31.4</b>		mg/kg dry	1.14	2.27	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 17:25	KH



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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
86-73-7	<b>Fluorene</b>	<b>1.49</b>		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>8.13</b>		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
78-59-1	Isophorone	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
91-20-3	<b>Naphthalene</b>	<b>0.290</b>	J	mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
85-01-8	<b>Phenanthrene</b>	<b>27.5</b>		mg/kg dry	1.14	2.27	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 17:25	KH
108-95-2	Phenol	ND		mg/kg dry	0.227	0.454	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH
129-00-0	<b>Pyrene</b>	<b>30.2</b>		mg/kg dry	1.14	2.27	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 17:25	KH
110-86-1	Pyridine	ND		mg/kg dry	0.908	1.82	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:05	12/24/2018 11:56	KH

**Surrogate Recoveries**

**Result**

**Acceptance Range**

367-12-4	Surrogate: SURR: 2-Fluorophenol	51.2 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	44.6 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	46.0 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	46.0 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	59.6 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	56.0 %	24-116





### Sample Information

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**York Sample ID:** 18L0827-05

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

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**Date Received**

18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 11:35 am

12/19/2018

**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		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	12/24/2018 00:12	12/25/2018 00:24	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0360	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	12/24/2018 00:12	12/25/2018 00:24	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
72-20-8	Endrin	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	12/24/2018 00:12	12/25/2018 00:24	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00900	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM



### Sample Information

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170502901 320 W. Fordham Rd Bronx NY

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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
8001-35-2	Toxaphene	ND		mg/kg dry	0.0911	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/24/2018 00:12	12/25/2018 00:24	CM
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
2051-24-3	Surrogate: Decachlorobiphenyl	63.0 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	52.1 %	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	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 12:19	TJD
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 12:19	TJD
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 12:19	TJD
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 12:19	TJD
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 12:19	TJD
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 12:19	TJD
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/24/2018 00:12	12/24/2018 12:19	TJD
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications:	12/24/2018 00:12	12/24/2018 12:19	TJD
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	71.3 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	58.2 %	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	9950		mg/kg dry	5.47	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7440-36-0	Antimony	ND		mg/kg dry	2.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7440-38-2	Arsenic	1.85		mg/kg dry	1.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML



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Soil

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12/19/2018

**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
7440-39-3	<b>Barium</b>	<b>87.8</b>		mg/kg dry	2.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.055	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7440-43-9	<b>Cadmium</b>	<b>0.361</b>		mg/kg dry	0.328	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7440-70-2	<b>Calcium</b>	<b>13100</b>		mg/kg dry	5.47	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7440-47-3	<b>Chromium</b>	<b>72.2</b>		mg/kg dry	0.547	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7440-48-4	<b>Cobalt</b>	<b>9.96</b>		mg/kg dry	0.437	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7440-50-8	<b>Copper</b>	<b>48.2</b>		mg/kg dry	2.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7439-89-6	<b>Iron</b>	<b>17100</b>		mg/kg dry	27.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7439-92-1	<b>Lead</b>	<b>38.8</b>		mg/kg dry	0.547	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7439-95-4	<b>Magnesium</b>	<b>7480</b>		mg/kg dry	5.47	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7439-96-5	<b>Manganese</b>	<b>212</b>		mg/kg dry	0.547	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7440-02-0	<b>Nickel</b>	<b>29.1</b>		mg/kg dry	1.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7440-09-7	<b>Potassium</b>	<b>4680</b>	B	mg/kg dry	5.47	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7782-49-2	Selenium	ND		mg/kg dry	2.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7440-22-4	Silver	ND		mg/kg dry	0.547	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7440-23-5	<b>Sodium</b>	<b>323</b>		mg/kg dry	54.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7440-28-0	Thallium	ND		mg/kg dry	2.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7440-62-2	<b>Vanadium</b>	<b>37.3</b>		mg/kg dry	1.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	KML
7440-66-6	<b>Zinc</b>	<b>83.9</b>		mg/kg dry	2.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:58	12/21/2018 17:55	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
120 RESEARCH DRIVE		STRATFORD, CT 06615					132-02 89th AVENUE			RICHMOND HILL, NY 11418
www.YORKLAB.com		(203) 325-1371					FAX (203) 357-0166			ClientServices@yorklab.com



**Sample Information**

**Client Sample ID:** SP22\_9-11

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Client Project ID

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18L0827

170502901 320 W. Fordham Rd Bronx NY

Soil

December 18, 2018 11:35 am

12/19/2018

**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	0.332		mg/kg dry	0.0328	1	EPA 7473	12/20/2018 09:51	12/20/2018 13:09	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

**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	91.5		%	0.100	1	SM 2540G	12/21/2018 18:56	12/24/2018 10:08	MAC
							Certifications:	CTDOH		

**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	0.547	1	EPA 7196A	12/21/2018 08:27	12/21/2018 16:20	MAC
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

**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	66.1		mg/kg	0.500	1	Calculation	12/24/2018 15:53	12/24/2018 15:54	AD
							Certifications:			

**Cyanide, Total**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.547	1	EPA 9014/9010C	12/21/2018 08:50	12/21/2018 14:15	AD
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		



### Sample Information

**Client Sample ID:** TMW21\_121818

**York Sample ID:** 18L0827-06

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 12:55 pm

12/19/2018

**Volatiles, 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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS



### Sample Information

**Client Sample ID:** TMW21\_121818

**York Sample ID:** 18L0827-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 12:55 pm

12/19/2018

**Volatiles, 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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS



### Sample Information

**Client Sample ID:** TMW21\_121818

**York Sample ID:** 18L0827-06

York Project (SDG) No.

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18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 12:55 pm

12/19/2018

**Volatiles, 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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:08	SS



Sample Information

Client Sample ID: TMW21\_121818

York Sample ID: 18L0827-06

York Project (SDG) No.

Client Project ID

Matrix

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18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 12:55 pm

12/19/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Vinyl Chloride, Xylenes, Total, and Surrogate Recoveries.

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various chlorophenols and dinitrotoluenes.





### Sample Information

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Water

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12/19/2018

**Semi-Volatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes: EXT-EM**

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
95-48-7	2-Methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
100-02-7	4-Nitrophenol	ND		ug/L	5.41	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
98-86-2	Acetophenone	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
62-53-3	Aniline	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
100-52-7	Benzaldehyde	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
92-87-5	Benzidine	ND		ug/L	5.41	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
65-85-0	Benzoic acid	ND		ug/L	27.0	54.1	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.08	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH



### Sample Information

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170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 12:55 pm

12/19/2018

**Semi-Volatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes: EXT-EM**

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
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
105-60-2	Caprolactam	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
86-74-8	Carbazole	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
132-64-9	Dibenzofuran	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
122-39-4	Diphenylamine	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.41	10.8	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
78-59-1	Isophorone	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
108-95-2	Phenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH
110-86-1	Pyridine	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:48	KH

**Surrogate Recoveries**

**Result**

**Acceptance Range**

367-12-4	Surrogate: SURR: 2-Fluorophenol	40.3 %	19.7-63.1
4165-62-2	Surrogate: SURR: Phenol-d5	24.1 %	10.1-41.7
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	62.6 %	50.2-113
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	61.8 %	39.9-105
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	85.4 %	39.3-151
1718-51-0	Surrogate: SURR: Terphenyl-d14	85.9 %	30.7-106

**Semi-Volatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes: EXT-EM**

Sample Prepared by Method: EPA 3510C

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: TMW21\_121818

York Sample ID: 18L0827-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 12:55 pm

12/19/2018

Semi-Volatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include various chemical compounds like Acenaphthene, Anthracene, Atrazine, etc.



### Sample Information

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170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 12:55 pm

12/19/2018

**Semi-Volatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:** EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:53	OW
129-00-0	Pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 10:53	OW

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:** EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

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		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/21/2018 09:57	12/24/2018 09:09	TJD
11104-28-2	Aroclor 1221	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/21/2018 09:57	12/24/2018 09:09	TJD
11141-16-5	Aroclor 1232	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/21/2018 09:57	12/24/2018 09:09	TJD
53469-21-9	Aroclor 1242	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/21/2018 09:57	12/24/2018 09:09	TJD
12672-29-6	Aroclor 1248	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/21/2018 09:57	12/24/2018 09:09	TJD
11097-69-1	Aroclor 1254	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/21/2018 09:57	12/24/2018 09:09	TJD
11096-82-5	Aroclor 1260	ND		ug/L	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/21/2018 09:57	12/24/2018 09:09	TJD
1336-36-3	* Total PCBs	ND		ug/L	0.0556	1	EPA 8082A Certifications:	12/21/2018 09:57	12/24/2018 09:09	TJD
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>					
877-09-8	Surrogate: Tetrachloro-m-xylene	83.7 %			30-120					
2051-24-3	Surrogate: Decachlorobiphenyl	77.1 %			30-120					

**Metals, Target Analyte, ICP**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.199		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:21	KML
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:21	KML
7440-70-2	Calcium	93.8		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:21	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:21	KML



### Sample Information

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York Project (SDG) No.

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Matrix

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170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 12:55 pm

12/19/2018

**Metals, Target Analyte, ICP**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:21	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:21	KML
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:21	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:21	KML
7439-95-4	<b>Magnesium</b>	<b>207</b>		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:21	KML
7439-96-5	<b>Manganese</b>	<b>0.0136</b>		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:21	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:21	KML
7440-09-7	<b>Potassium</b>	<b>77.0</b>	B	mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:21	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:21	KML
7440-23-5	<b>Sodium</b>	<b>3250</b>		mg/L	5.56	10	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/24/2018 11:22	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:21	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:21	KML

**Metals, Target Analyte, ICP Dissolved**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:24	KML
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:24	KML
7440-70-2	<b>Calcium</b>	<b>94.2</b>		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:24	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:24	KML
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:24	KML
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:24	KML
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:24	KML



### Sample Information

**Client Sample ID:** TMW21\_121818

**York Sample ID:** 18L0827-06

York Project (SDG) No.

Client Project ID

Matrix

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18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 12:55 pm

12/19/2018

**Metals, Target Analyte, ICP Dissolved**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:24	KML
7439-95-4	Magnesium	218		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:24	KML
7439-96-5	Manganese	0.00871		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:24	KML
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:24	KML
7440-09-7	Potassium	80.2	B	mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:24	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:24	KML
7440-23-5	Sodium	2030		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:24	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:24	KML
7440-66-6	Zinc	0.218		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:24	KML

**Metals, Target Analyte, ICPMS**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.00111	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:27	12/21/2018 15:27	BML
7440-38-2	Arsenic	0.00158		mg/L	0.00111	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:27	12/21/2018 15:27	BML
7440-41-7	Beryllium	ND		mg/L	0.000333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:27	12/21/2018 15:27	BML
7440-43-9	Cadmium	ND		mg/L	0.000556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:27	12/21/2018 15:27	BML
7782-49-2	Selenium	0.0160		mg/L	0.00222	2	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:27	12/27/2018 17:27	BML
7440-28-0	Thallium	ND		mg/L	0.00111	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:27	12/21/2018 15:27	BML

**Metals, Target Analyte, ICPMS Dissolved**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.00111	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:56	12/21/2018 16:58	BML



**Sample Information**

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18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 12:55 pm

12/19/2018

**Metals, Target Analyte, ICPMS Dissolved**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	0.00150		mg/L	0.00111	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:56	12/21/2018 16:58	BML
7440-41-7	Beryllium	ND		mg/L	0.000333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:56	12/21/2018 16:58	BML
7440-43-9	Cadmium	ND		mg/L	0.000556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:56	12/21/2018 16:58	BML
7782-49-2	Selenium	ND	M-ISO	mg/L	0.00222	2	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:56	12/27/2018 17:24	BML
7440-28-0	Thallium	ND		mg/L	0.00111	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:56	12/21/2018 16:58	BML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:48	12/20/2018 13:10	SY

**Mercury by 7473, Dissolved**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 16:26	12/21/2018 18:21	SY



### Sample Information

**Client Sample ID:** TMW22\_121818

**York Sample ID:** 18L0827-07

York Project (SDG) No.

Client Project ID

Matrix

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Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 2:25 pm

12/19/2018

**Volatiles, 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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS





### Sample Information

**Client Sample ID:** TMW22\_121818

**York Sample ID:** 18L0827-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 2:25 pm

12/19/2018

**Volatiles, 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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS



### Sample Information

**Client Sample ID:** TMW22\_121818

**York Sample ID:** 18L0827-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 2:25 pm

12/19/2018

**Volatiles, 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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
98-82-8	<b>Isopropylbenzene</b>	<b>0.390</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS



### Sample Information

**Client Sample ID:** TMW22\_121818

**York Sample ID:** 18L0827-07

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 2:25 pm

12/19/2018

**Volatiles, 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
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/24/2018 07:30	12/24/2018 15:40	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/24/2018 07:30	12/24/2018 15:40	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	91.9 %			69-130						
2037-26-5	Surrogate: SURR: Toluene-d8	97.4 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	158 %	S-09		79-122						

**Semi-Volatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes: EXT-EM**

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	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH



### Sample Information

**Client Sample ID:** TMW22\_121818

**York Sample ID:** 18L0827-07

York Project (SDG) No.

Client Project ID

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18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 2:25 pm

12/19/2018

**Semi-Volatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes: EXT-EM**

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
95-48-7	2-Methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
100-02-7	4-Nitrophenol	ND		ug/L	5.41	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
98-86-2	Acetophenone	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
62-53-3	Aniline	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
100-52-7	Benzaldehyde	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
92-87-5	Benzidine	ND		ug/L	5.41	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
65-85-0	Benzoic acid	ND		ug/L	27.0	54.1	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.08	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH



### Sample Information

**Client Sample ID:** TMW22\_121818

**York Sample ID:** 18L0827-07

York Project (SDG) No.

Client Project ID

Matrix

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18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 2:25 pm

12/19/2018

**Semi-Volatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes: EXT-EM**

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
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
105-60-2	Caprolactam	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
86-74-8	Carbazole	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
132-64-9	Dibenzofuran	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
122-39-4	Diphenylamine	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.41	10.8	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
78-59-1	Isophorone	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
108-95-2	Phenol	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH
110-86-1	Pyridine	ND		ug/L	2.70	5.41	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:18	KH

**Surrogate Recoveries**

**Result**

**Acceptance Range**

367-12-4	Surrogate: SURR: 2-Fluorophenol	40.4 %	19.7-63.1
4165-62-2	Surrogate: SURR: Phenol-d5	23.5 %	10.1-41.7
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	66.3 %	50.2-113
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	67.1 %	39.9-105
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	100 %	39.3-151
1718-51-0	Surrogate: SURR: Terphenyl-d14	91.1 %	30.7-106

**Semi-Volatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes: EXT-EM**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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**Client Sample ID:** TMW22\_121818

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**Semi-Volatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes: EXT-EM**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	<b>Acenaphthene</b>	<b>0.0889</b>		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:24	OW
208-96-8	Acenaphthylene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:24	OW
120-12-7	<b>Anthracene</b>	<b>0.133</b>		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:24	OW
1912-24-9	Atrazine	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	12/21/2018 09:44	12/26/2018 11:24	OW
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:24	OW
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:24	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:24	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:24	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:24	OW
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	12/21/2018 09:44	12/26/2018 11:24	OW
218-01-9	Chrysene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:24	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:24	OW
206-44-0	<b>Fluoranthene</b>	<b>0.167</b>		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:24	OW
86-73-7	<b>Fluorene</b>	<b>0.0667</b>		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:24	OW
118-74-1	Hexachlorobenzene	ND		ug/L	0.0222	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	12/21/2018 09:44	12/26/2018 11:24	OW
87-68-3	Hexachlorobutadiene	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	12/21/2018 09:44	12/26/2018 11:24	OW
67-72-1	Hexachloroethane	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	12/21/2018 09:44	12/26/2018 11:24	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:24	OW
91-20-3	<b>Naphthalene</b>	<b>0.0667</b>		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:24	OW
98-95-3	Nitrobenzene	ND		ug/L	0.278	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	12/21/2018 09:44	12/26/2018 11:24	OW
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	12/21/2018 09:44	12/26/2018 11:24	OW
87-86-5	Pentachlorophenol	ND		ug/L	0.278	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP	12/21/2018 09:44	12/26/2018 11:24	OW



### Sample Information

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170502901 320 W. Fordham Rd Bronx NY

Water

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12/19/2018

**Semi-Volatiles, 8270 Comprehensive**

**Log-in Notes:**

**Sample Notes:** EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	0.467		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:24	OW
129-00-0	Pyrene	0.156		ug/L	0.0556	1	EPA 8270D SIM Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 09:44	12/26/2018 11:24	OW

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:** EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

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		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/21/2018 09:57	12/24/2018 09:22	TJD
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/21/2018 09:57	12/24/2018 09:22	TJD
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/21/2018 09:57	12/24/2018 09:22	TJD
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/21/2018 09:57	12/24/2018 09:22	TJD
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/21/2018 09:57	12/24/2018 09:22	TJD
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/21/2018 09:57	12/24/2018 09:22	TJD
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/21/2018 09:57	12/24/2018 09:22	TJD
1336-36-3	* Total PCBs	ND		ug/L	0.0541	1	EPA 8082A Certifications:	12/21/2018 09:57	12/24/2018 09:22	TJD
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>					
877-09-8	Surrogate: Tetrachloro-m-xylene	78.2 %			30-120					
2051-24-3	Surrogate: Decachlorobiphenyl	69.7 %			30-120					

**Metals, Target Analyte, ICP**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5.18		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:23	KML
7440-39-3	Barium	0.214		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:23	KML
7440-70-2	Calcium	22.1		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:23	KML
7440-47-3	Chromium	0.0268		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:23	KML



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170502901 320 W. Fordham Rd Bronx NY

Water

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**Metals, Target Analyte, ICP**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-48-4	Cobalt	0.0259		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:23	KML
7440-50-8	Copper	0.0455		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:23	KML
7439-89-6	Iron	7.69		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:23	KML
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:23	KML
7439-95-4	Magnesium	39.8		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:23	KML
7439-96-5	Manganese	3.07		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:23	KML
7440-02-0	Nickel	0.0438		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:23	KML
7440-09-7	Potassium	21.8	B	mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:23	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:23	KML
7440-23-5	Sodium	1290		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:23	KML
7440-62-2	Vanadium	0.0195		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:23	KML
7440-66-6	Zinc	0.0333		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:25	12/21/2018 14:23	KML

**Metals, Target Analyte, ICP Dissolved**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:27	KML
7440-39-3	Barium	0.114		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:27	KML
7440-70-2	Calcium	20.8		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:27	KML
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:27	KML
7440-48-4	Cobalt	0.0227		mg/L	0.00444	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:27	KML
7440-50-8	Copper	0.0359		mg/L	0.0222	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:27	KML
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:27	KML





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**Metals, Target Analyte, ICP Dissolved**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:27	KML
7439-95-4	Magnesium	38.0		mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:27	KML
7439-96-5	Manganese	2.79		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:27	KML
7440-02-0	Nickel	0.0301		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:27	KML
7440-09-7	Potassium	20.5	B	mg/L	0.0556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:27	KML
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:27	KML
7440-23-5	Sodium	1060		mg/L	0.556	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:27	KML
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:27	KML
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:54	12/24/2018 10:27	KML

**Metals, Target Analyte, ICPMS**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.00111	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:27	12/21/2018 15:31	BML
7440-38-2	Arsenic	0.00283		mg/L	0.00111	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:27	12/21/2018 15:31	BML
7440-41-7	Beryllium	ND		mg/L	0.000333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:27	12/21/2018 15:31	BML
7440-43-9	Cadmium	0.0128		mg/L	0.000556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:27	12/21/2018 15:31	BML
7782-49-2	Selenium	0.0122		mg/L	0.00222	2	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:27	12/27/2018 17:27	BML
7440-28-0	Thallium	ND		mg/L	0.00111	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 12:27	12/21/2018 15:31	BML

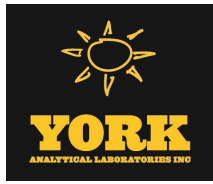
**Metals, Target Analyte, ICPMS Dissolved**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.00111	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:56	12/21/2018 17:12	BML



**Sample Information**

**Client Sample ID:** TMW22\_121818

**York Sample ID:** 18L0827-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 2:25 pm

12/19/2018

**Metals, Target Analyte, ICPMS Dissolved**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.00111	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:56	12/21/2018 17:12	BML
7440-41-7	Beryllium	ND		mg/L	0.000333	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:56	12/21/2018 17:12	BML
7440-43-9	<b>Cadmium</b>	<b>0.0128</b>		mg/L	0.000556	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:56	12/21/2018 17:12	BML
7782-49-2	Selenium	ND	M-ISO	mg/L	0.00222	2	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:56	12/27/2018 17:24	BML
7440-28-0	Thallium	ND		mg/L	0.00111	1	EPA 6020B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 15:56	12/21/2018 17:12	BML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/20/2018 09:48	12/20/2018 13:21	SY

**Mercury by 7473, Dissolved**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2018 16:26	12/21/2018 18:31	SY



### Sample Information

**Client Sample ID:** TB06\_121818

**York Sample ID:** 18L0827-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 12:00 am

12/19/2018

**Volatiles, 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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS



### Sample Information

**Client Sample ID:** TB06\_121818

**York Sample ID:** 18L0827-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 12:00 am

12/19/2018

**Volatiles, 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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS



### Sample Information

**Client Sample ID:** TB06\_121818

**York Sample ID:** 18L0827-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 12:00 am

12/19/2018

**Volatiles, 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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS



**Sample Information**

**Client Sample ID:** TB06\_121818

**York Sample ID:** 18L0827-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0827

170502901 320 W. Fordham Rd Bronx NY

Water

December 18, 2018 12:00 am

12/19/2018

**Volatiles, 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
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/21/2018 12:30	12/22/2018 08:43	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/21/2018 12:30	12/22/2018 08:43	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	90.6 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	97.0 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %	79-122								



## Analytical Batch Summary

**Batch ID:** BL81067      **Preparation Method:** EPA 7473 water      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18L0827-06	TMW21_121818	12/20/18
18L0827-07	TMW22_121818	12/20/18
BL81067-BLK1	Blank	12/20/18
BL81067-DUP1	Duplicate	12/20/18
BL81067-MS1	Matrix Spike	12/20/18
BL81067-SRM1	Reference	12/20/18

**Batch ID:** BL81068      **Preparation Method:** EPA 7473 soil      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18L0827-01	SP21_3-5	12/20/18
18L0827-02	SP21_8-10	12/20/18
18L0827-03	SP21_13-15	12/20/18
18L0827-04	SP22_3-5	12/20/18
18L0827-05	SP22_9-11	12/20/18
BL81068-BLK1	Blank	12/20/18
BL81068-SRM1	Reference	12/20/18

**Batch ID:** BL81072      **Preparation Method:** EPA 3050B      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18L0827-01	SP21_3-5	12/20/18
18L0827-02	SP21_8-10	12/20/18
18L0827-03	SP21_13-15	12/20/18
18L0827-04	SP22_3-5	12/20/18
18L0827-05	SP22_9-11	12/20/18
BL81072-BLK1	Blank	12/20/18
BL81072-SRM1	Reference	12/20/18

**Batch ID:** BL81145      **Preparation Method:** EPA SW846-3060      **Prepared By:** MAC

YORK Sample ID	Client Sample ID	Preparation Date
18L0827-01	SP21_3-5	12/21/18
18L0827-02	SP21_8-10	12/21/18
18L0827-03	SP21_13-15	12/21/18
18L0827-04	SP22_3-5	12/21/18
18L0827-05	SP22_9-11	12/21/18
BL81145-BLK1	Blank	12/21/18
BL81145-SRM1	Reference	12/21/18

**Batch ID:** BL81149      **Preparation Method:** Analysis Preparation Soil      **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
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18L0827-01	SP21_3-5	12/21/18
18L0827-02	SP21_8-10	12/21/18
18L0827-03	SP21_13-15	12/21/18
18L0827-04	SP22_3-5	12/21/18
18L0827-05	SP22_9-11	12/21/18
BL81149-BLK1	Blank	12/21/18
BL81149-SRM1	Reference	12/21/18

**Batch ID:** BL81156      **Preparation Method:** EPA SW846-3510C Low Level      **Prepared By:** KNK

YORK Sample ID	Client Sample ID	Preparation Date
18L0827-06	TMW21_121818	12/21/18
18L0827-07	TMW22_121818	12/21/18
BL81156-BLK2	Blank	12/21/18
BL81156-BS2	LCS	12/21/18
BL81156-BSD2	LCS Dup	12/21/18

**Batch ID:** BL81186      **Preparation Method:** EPA 3015A      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18L0827-06	TMW21_121818	12/21/18
18L0827-06RE1	TMW21_121818	12/21/18
18L0827-07	TMW22_121818	12/21/18
BL81186-BLK1	Blank	12/21/18
BL81186-BS1	LCS	12/21/18
BL81186-DUP1	Duplicate	12/21/18
BL81186-MS1	Matrix Spike	12/21/18

**Batch ID:** BL81187      **Preparation Method:** EPA 3015A      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18L0827-06	TMW21_121818	12/21/18
18L0827-06RE1	TMW21_121818	12/21/18
18L0827-07	TMW22_121818	12/21/18
18L0827-07RE1	TMW22_121818	12/21/18
BL81187-BLK1	Blank	12/21/18
BL81187-BS1	LCS	12/21/18
BL81187-DUP1	Duplicate	12/21/18
BL81187-MS1	Matrix Spike	12/21/18

**Batch ID:** BL81196      **Preparation Method:** EPA 5035A      **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
18L0827-01	SP21_3-5	12/21/18
18L0827-02	SP21_8-10	12/21/18
18L0827-03	SP21_13-15	12/21/18
BL81196-BLK1	Blank	12/21/18
BL81196-BLK2	Blank	12/21/18
BL81196-BS1	LCS	12/21/18





BL81196-BSD1 LCS Dup 12/21/18

Batch ID: BL81197 Preparation Method: EPA 5030B Prepared By: RDS

Table with 3 columns: YORK Sample ID, Client Sample ID, Preparation Date. Rows include 18L0827-08, BL81197-BLK1, BL81197-BS1, BL81197-BSD1.

Batch ID: BL81201 Preparation Method: EPA 3015A Prepared By: SY

Table with 3 columns: YORK Sample ID, Client Sample ID, Preparation Date. Rows include 18L0827-06, 18L0827-07, BL81201-BLK1, BL81201-BS1, BL81201-DUP1, BL81201-MS1.

Batch ID: BL81203 Preparation Method: EPA 3015A Prepared By: SY

Table with 3 columns: YORK Sample ID, Client Sample ID, Preparation Date. Rows include 18L0827-06, 18L0827-06RE1, 18L0827-07, 18L0827-07RE1, BL81203-BLK1, BL81203-BS1, BL81203-DUP1, BL81203-MS1.

Batch ID: BL81207 Preparation Method: EPA 7473 water Prepared By: SY

Table with 3 columns: YORK Sample ID, Client Sample ID, Preparation Date. Rows include 18L0827-06, 18L0827-07, BL81207-BLK1, BL81207-SRM1.

Batch ID: BL81220 Preparation Method: % Solids Prep Prepared By: MAC

Table with 3 columns: YORK Sample ID, Client Sample ID, Preparation Date. Rows include 18L0827-01, 18L0827-02, 18L0827-03, 18L0827-04, 18L0827-05.



**Batch ID:** BL81227

**Preparation Method:** EPA 3550C

**Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
18L0827-01	SP21_3-5	12/24/18
18L0827-02	SP21_8-10	12/24/18
18L0827-03	SP21_13-15	12/24/18
18L0827-04	SP22_3-5	12/24/18
18L0827-05	SP22_9-11	12/24/18
18L0827-05RE1	SP22_9-11	12/24/18
BL81227-BLK1	Blank	12/24/18
BL81227-BS1	LCS	12/24/18

**Batch ID:** BL81228

**Preparation Method:** EPA 3550C

**Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
18L0827-01	SP21_3-5	12/24/18
18L0827-01	SP21_3-5	12/24/18
18L0827-02	SP21_8-10	12/24/18
18L0827-02	SP21_8-10	12/24/18
18L0827-03	SP21_13-15	12/24/18
18L0827-03	SP21_13-15	12/24/18
18L0827-04	SP22_3-5	12/24/18
18L0827-04	SP22_3-5	12/24/18
18L0827-05	SP22_9-11	12/24/18
18L0827-05	SP22_9-11	12/24/18
BL81228-BLK1	Blank	12/24/18
BL81228-BLK2	Blank	12/24/18
BL81228-BS1	LCS	12/24/18
BL81228-BS2	LCS	12/24/18

**Batch ID:** BL81250

**Preparation Method:** EPA 5035A

**Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
18L0827-04	SP22_3-5	12/24/18
18L0827-05	SP22_9-11	12/24/18
BL81250-BLK1	Blank	12/24/18
BL81250-BLK2	Blank	12/24/18
BL81250-BS1	LCS	12/24/18
BL81250-BSD1	LCS Dup	12/24/18

**Batch ID:** BL81252

**Preparation Method:** EPA 5030B

**Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
18L0827-06	TMW21_121818	12/24/18
18L0827-07	TMW22_121818	12/24/18
BL81252-BLK1	Blank	12/24/18
BL81252-BS1	LCS	12/24/18
BL81252-BSD1	LCS Dup	12/24/18



**Batch ID:** BL81260

**Preparation Method:** EPA 3510C

**Prepared By:** CTD

YORK Sample ID	Client Sample ID	Preparation Date
18L0827-06	TMW21_121818	12/21/18
18L0827-07	TMW22_121818	12/21/18
BL81260-BLK1	Blank	12/24/18
BL81260-BLK2	Blank	12/24/18
BL81260-BS1	LCS	12/24/18
BL81260-BS2	LCS	12/24/18
BL81260-BSD1	LCS Dup	12/24/18

**Batch ID:** BL81276

**Preparation Method:** Analysis Preparation

**Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
18L0827-01	SP21_3-5	12/24/18
18L0827-02	SP21_8-10	12/24/18
18L0827-03	SP21_13-15	12/24/18
18L0827-04	SP22_3-5	12/24/18
18L0827-05	SP22_9-11	12/24/18



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BL81196 - EPA 5035A**

**Blank (BL81196-BLK1)**

Prepared: 12/21/2018 Analyzed: 12/22/2018

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

**Batch BL81196 - EPA 5035A**

**Blank (BL81196-BLK1)**

Prepared: 12/21/2018 Analyzed: 12/22/2018

n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.025	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
<hr/>											
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>49.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.3</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>49.6</i>		<i>"</i>	<i>50.0</i>		<i>99.2</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.9</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>76-130</i>				

**Blank (BL81196-BLK2)**

Prepared: 12/21/2018 Analyzed: 12/22/2018

1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

**Batch BL81196 - EPA 5035A**

**Blank (BL81196-BLK2)**

Prepared: 12/21/2018 Analyzed: 12/22/2018

Bromoform	ND	0.50	mg/kg wet										
Bromomethane	ND	0.50	"										
Carbon disulfide	ND	0.50	"										
Carbon tetrachloride	ND	0.50	"										
Chlorobenzene	ND	0.50	"										
Chloroethane	ND	0.50	"										
Chloroform	ND	0.50	"										
Chloromethane	ND	0.50	"										
cis-1,2-Dichloroethylene	ND	0.50	"										
cis-1,3-Dichloropropylene	ND	0.50	"										
Cyclohexane	ND	0.50	"										
Dibromochloromethane	ND	0.50	"										
Dibromomethane	ND	0.50	"										
Dichlorodifluoromethane	ND	0.50	"										
Ethyl Benzene	ND	0.50	"										
Hexachlorobutadiene	ND	0.50	"										
Isopropylbenzene	ND	0.50	"										
Methyl acetate	ND	0.50	"										
Methyl tert-butyl ether (MTBE)	ND	0.50	"										
Methylcyclohexane	ND	0.50	"										
Methylene chloride	ND	1.0	"										
n-Butylbenzene	ND	0.50	"										
n-Propylbenzene	ND	0.50	"										
o-Xylene	ND	0.50	"										
p- & m- Xylenes	ND	1.0	"										
p-Isopropyltoluene	ND	0.50	"										
sec-Butylbenzene	ND	0.50	"										
Styrene	ND	0.50	"										
tert-Butyl alcohol (TBA)	ND	2.5	"										
tert-Butylbenzene	ND	0.50	"										
Tetrachloroethylene	ND	0.50	"										
Toluene	ND	0.50	"										
trans-1,2-Dichloroethylene	ND	0.50	"										
trans-1,3-Dichloropropylene	ND	0.50	"										
Trichloroethylene	ND	0.50	"										
Trichlorofluoromethane	ND	0.50	"										
Vinyl Chloride	ND	0.50	"										
Xylenes, Total	ND	1.5	"										

Surrogate: SURRE: 1,2-Dichloroethane-d4	50.7		ug/L	50.0		101	77-125
Surrogate: SURRE: Toluene-d8	50.0		"	50.0		100	85-120
Surrogate: SURRE: p-Bromofluorobenzene	50.6		"	50.0		101	76-130



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit

**Batch BL81196 - EPA 5035A**

**LCS (BL81196-BS1)**

Prepared: 12/21/2018 Analyzed: 12/22/2018

1,1,1,2-Tetrachloroethane	48.3		ug/L	50.0		96.7	75-129			
1,1,1-Trichloroethane	52.0		"	50.0		104	71-137			
1,1,2,2-Tetrachloroethane	48.0		"	50.0		95.9	79-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	56.0		"	50.0		112	58-146			
1,1,2-Trichloroethane	48.0		"	50.0		96.0	83-123			
1,1-Dichloroethane	52.9		"	50.0		106	75-130			
1,1-Dichloroethylene	51.5		"	50.0		103	64-137			
1,2,3-Trichlorobenzene	44.6		"	50.0		89.2	81-140			
1,2,3-Trichloropropane	49.4		"	50.0		98.8	81-126			
1,2,4-Trichlorobenzene	42.2		"	50.0		84.4	80-141			
1,2,4-Trimethylbenzene	49.0		"	50.0		98.1	84-125			
1,2-Dibromo-3-chloropropane	44.8		"	50.0		89.6	74-142			
1,2-Dibromoethane	48.8		"	50.0		97.6	86-123			
1,2-Dichlorobenzene	49.0		"	50.0		98.1	85-122			
1,2-Dichloroethane	54.4		"	50.0		109	71-133			
1,2-Dichloropropane	48.8		"	50.0		97.7	81-122			
1,3,5-Trimethylbenzene	50.2		"	50.0		100	82-126			
1,3-Dichlorobenzene	46.6		"	50.0		93.1	84-124			
1,4-Dichlorobenzene	46.7		"	50.0		93.4	84-124			
1,4-Dioxane	1050		"	1050		99.6	10-228			
2-Butanone	47.9		"	50.0		95.9	58-147			
2-Hexanone	41.8		"	50.0		83.5	70-139			
4-Methyl-2-pentanone	45.9		"	50.0		91.7	72-132			
Acetone	35.8		"	50.0		71.5	36-155			
Acrolein	64.0		"	50.0		128	10-238			
Acrylonitrile	50.9		"	50.0		102	66-141			
Benzene	53.0		"	50.0		106	77-127			
Bromochloromethane	50.7		"	50.0		101	74-129			
Bromodichloromethane	48.0		"	50.0		96.0	81-124			
Bromoform	41.2		"	50.0		82.5	80-136			
Bromomethane	63.2		"	50.0		126	32-177			
Carbon disulfide	51.3		"	50.0		103	10-136			
Carbon tetrachloride	51.5		"	50.0		103	66-143			
Chlorobenzene	49.8		"	50.0		99.5	86-120			
Chloroethane	62.0		"	50.0		124	51-142			
Chloroform	52.3		"	50.0		105	76-131			
Chloromethane	57.5		"	50.0		115	49-132			
cis-1,2-Dichloroethylene	51.2		"	50.0		102	74-132			
cis-1,3-Dichloropropylene	44.7		"	50.0		89.4	81-129			
Cyclohexane	49.6		"	50.0		99.1	70-130			
Dibromochloromethane	46.1		"	50.0		92.2	10-200			
Dibromomethane	48.8		"	50.0		97.6	83-124			
Dichlorodifluoromethane	68.1		"	50.0		136	28-158			
Ethyl Benzene	51.3		"	50.0		103	84-125			
Hexachlorobutadiene	49.0		"	50.0		98.0	83-133			
Isopropylbenzene	50.7		"	50.0		101	81-127			
Methyl acetate	47.8		"	50.0		95.7	41-143			
Methyl tert-butyl ether (MTBE)	50.9		"	50.0		102	74-131			
Methylcyclohexane	53.4		"	50.0		107	70-130			
Methylene chloride	50.6		"	50.0		101	57-141			
n-Butylbenzene	54.1		"	50.0		108	80-130			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit
<b>Batch BL81196 - EPA 5035A</b>										
<b>LCS (BL81196-BS1)</b>										
Prepared: 12/21/2018 Analyzed: 12/22/2018										
n-Propylbenzene	50.2		ug/L	50.0		100	74-136			
o-Xylene	50.5		"	50.0		101	83-123			
p- & m- Xylenes	101		"	100		101	82-128			
p-Isopropyltoluene	51.1		"	50.0		102	85-125			
sec-Butylbenzene	54.3		"	50.0		109	83-125			
Styrene	48.8		"	50.0		97.6	86-126			
tert-Butyl alcohol (TBA)	220		"	250		88.1	70-130			
tert-Butylbenzene	45.6		"	50.0		91.1	80-127			
Tetrachloroethylene	46.2		"	50.0		92.3	80-129			
Toluene	51.8		"	50.0		104	85-121			
trans-1,2-Dichloroethylene	51.6		"	50.0		103	72-132			
trans-1,3-Dichloropropylene	43.3		"	50.0		86.6	78-132			
Trichloroethylene	52.5		"	50.0		105	84-123			
Trichlorofluoromethane	61.2		"	50.0		122	62-140			
Vinyl Chloride	60.0		"	50.0		120	52-130			
Surrogate: SURR: 1,2-Dichloroethane-d4	50.2		"	50.0		100	77-125			
Surrogate: SURR: Toluene-d8	49.4		"	50.0		98.9	85-120			
Surrogate: SURR: p-Bromofluorobenzene	49.6		"	50.0		99.2	76-130			
<b>LCS Dup (BL81196-BSD1)</b>										
Prepared: 12/21/2018 Analyzed: 12/22/2018										
1,1,1,2-Tetrachloroethane	48.2		ug/L	50.0		96.3	75-129		0.352	30
1,1,1-Trichloroethane	51.3		"	50.0		103	71-137		1.34	30
1,1,2,2-Tetrachloroethane	47.0		"	50.0		94.1	79-129		1.92	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54.7		"	50.0		109	58-146		2.40	30
1,1,2-Trichloroethane	47.4		"	50.0		94.8	83-123		1.28	30
1,1-Dichloroethane	51.9		"	50.0		104	75-130		1.97	30
1,1-Dichloroethylene	50.7		"	50.0		101	64-137		1.57	30
1,2,3-Trichlorobenzene	42.9		"	50.0		85.7	81-140		3.98	30
1,2,3-Trichloropropane	49.3		"	50.0		98.5	81-126		0.243	30
1,2,4-Trichlorobenzene	40.5		"	50.0		80.9	80-141		4.19	30
1,2,4-Trimethylbenzene	47.2		"	50.0		94.4	84-125		3.78	30
1,2-Dibromo-3-chloropropane	44.7		"	50.0		89.5	74-142		0.179	30
1,2-Dibromoethane	48.8		"	50.0		97.6	86-123		0.0205	30
1,2-Dichlorobenzene	47.3		"	50.0		94.6	85-122		3.61	30
1,2-Dichloroethane	53.9		"	50.0		108	71-133		0.812	30
1,2-Dichloropropane	47.7		"	50.0		95.5	81-122		2.30	30
1,3,5-Trimethylbenzene	48.1		"	50.0		96.2	82-126		4.19	30
1,3-Dichlorobenzene	45.2		"	50.0		90.5	84-124		2.90	30
1,4-Dichlorobenzene	45.2		"	50.0		90.5	84-124		3.24	30
1,4-Dioxane	1030		"	1050		98.0	10-228		1.62	30
2-Butanone	50.6		"	50.0		101	58-147		5.50	30
2-Hexanone	42.5		"	50.0		85.1	70-139		1.87	30
4-Methyl-2-pentanone	46.4		"	50.0		92.7	72-132		1.08	30
Acetone	36.7		"	50.0		73.3	36-155		2.48	30
Acrolein	64.2		"	50.0		128	10-238		0.265	30
Acrylonitrile	51.7		"	50.0		103	66-141		1.54	30
Benzene	52.3		"	50.0		105	77-127		1.39	30
Bromochloromethane	50.7		"	50.0		101	74-129		0.0197	30
Bromodichloromethane	47.6		"	50.0		95.2	81-124		0.816	30
Bromoform	41.7		"	50.0		83.4	80-136		1.16	30
Bromomethane	62.7		"	50.0		125	32-177		0.794	30





**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit

**Batch BL81196 - EPA 5035A**

**LCS Dup (BL81196-BSD1)**

Prepared: 12/21/2018 Analyzed: 12/22/2018

Carbon disulfide	50.9		ug/L	50.0		102	10-136		0.920	30
Carbon tetrachloride	50.8		"	50.0		102	66-143		1.29	30
Chlorobenzene	48.8		"	50.0		97.5	86-120		1.99	30
Chloroethane	60.9		"	50.0		122	51-142		1.76	30
Chloroform	51.7		"	50.0		103	76-131		1.19	30
Chloromethane	56.4		"	50.0		113	49-132		1.88	30
cis-1,2-Dichloroethylene	50.3		"	50.0		101	74-132		1.85	30
cis-1,3-Dichloropropylene	44.2		"	50.0		88.5	81-129		1.06	30
Cyclohexane	48.2		"	50.0		96.4	70-130		2.80	30
Dibromochloromethane	45.7		"	50.0		91.3	10-200		0.915	30
Dibromomethane	48.4		"	50.0		96.7	83-124		0.865	30
Dichlorodifluoromethane	68.1		"	50.0		136	28-158		0.0734	30
Ethyl Benzene	50.0		"	50.0		100	84-125		2.49	30
Hexachlorobutadiene	45.8		"	50.0		91.7	83-133		6.64	30
Isopropylbenzene	48.6		"	50.0		97.2	81-127		4.29	30
Methyl acetate	48.9		"	50.0		97.9	41-143		2.27	30
Methyl tert-butyl ether (MTBE)	50.8		"	50.0		102	74-131		0.138	30
Methylcyclohexane	52.3		"	50.0		105	70-130		2.16	30
Methylene chloride	50.0		"	50.0		100	57-141		1.09	30
n-Butylbenzene	53.8		"	50.0		108	80-130		0.612	30
n-Propylbenzene	48.1		"	50.0		96.3	74-136		4.29	30
o-Xylene	49.1		"	50.0		98.2	83-123		2.87	30
p- & m- Xylenes	98.6		"	100		98.6	82-128		2.45	30
p-Isopropyltoluene	48.7		"	50.0		97.5	85-125		4.79	30
sec-Butylbenzene	52.2		"	50.0		104	83-125		4.02	30
Styrene	47.6		"	50.0		95.2	86-126		2.51	30
tert-Butyl alcohol (TBA)	225		"	250		89.8	70-130		1.90	30
tert-Butylbenzene	43.7		"	50.0		87.4	80-127		4.19	30
Tetrachloroethylene	44.7		"	50.0		89.3	80-129		3.26	30
Toluene	50.4		"	50.0		101	85-121		2.62	30
trans-1,2-Dichloroethylene	50.3		"	50.0		101	72-132		2.57	30
trans-1,3-Dichloropropylene	42.7		"	50.0		85.4	78-132		1.44	30
Trichloroethylene	50.5		"	50.0		101	84-123		3.88	30
Trichlorofluoromethane	60.0		"	50.0		120	62-140		2.05	30
Vinyl Chloride	59.1		"	50.0		118	52-130		1.44	30
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>50.9</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>77-125</i>			
<i>Surrogate: SURR: Toluene-d8</i>	<i>49.6</i>		<i>"</i>	<i>50.0</i>		<i>99.2</i>	<i>85-120</i>			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>48.9</i>		<i>"</i>	<i>50.0</i>		<i>97.8</i>	<i>76-130</i>			



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit

**Batch BL81197 - EPA 5030B**

**Blank (BL81197-BLK1)**

Prepared: 12/21/2018 Analyzed: 12/22/2018

1,1,1,2-Tetrachloroethane	ND	0.500	ug/L
1,1,1-Trichloroethane	ND	0.500	"
1,1,2,2-Tetrachloroethane	ND	0.500	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"
1,1,2-Trichloroethane	ND	0.500	"
1,1-Dichloroethane	ND	0.500	"
1,1-Dichloroethylene	ND	0.500	"
1,2,3-Trichlorobenzene	ND	0.500	"
1,2,3-Trichloropropane	ND	0.500	"
1,2,4-Trichlorobenzene	ND	0.500	"
1,2,4-Trimethylbenzene	ND	0.500	"
1,2-Dibromo-3-chloropropane	ND	0.500	"
1,2-Dibromoethane	ND	0.500	"
1,2-Dichlorobenzene	ND	0.500	"
1,2-Dichloroethane	ND	0.500	"
1,2-Dichloropropane	ND	0.500	"
1,3,5-Trimethylbenzene	ND	0.500	"
1,3-Dichlorobenzene	ND	0.500	"
1,4-Dichlorobenzene	ND	0.500	"
1,4-Dioxane	ND	80.0	"
2-Butanone	ND	0.500	"
2-Hexanone	ND	0.500	"
4-Methyl-2-pentanone	ND	0.500	"
Acetone	1.38	2.00	"
Acrolein	ND	0.500	"
Acrylonitrile	ND	0.500	"
Benzene	ND	0.500	"
Bromochloromethane	ND	0.500	"
Bromodichloromethane	ND	0.500	"
Bromoform	ND	0.500	"
Bromomethane	ND	0.500	"
Carbon disulfide	ND	0.500	"
Carbon tetrachloride	ND	0.500	"
Chlorobenzene	ND	0.500	"
Chloroethane	ND	0.500	"
Chloroform	ND	0.500	"
Chloromethane	ND	0.500	"
cis-1,2-Dichloroethylene	ND	0.500	"
cis-1,3-Dichloropropylene	ND	0.500	"
Cyclohexane	ND	0.500	"
Dibromochloromethane	ND	0.500	"
Dibromomethane	ND	0.500	"
Dichlorodifluoromethane	ND	0.500	"
Ethyl Benzene	ND	0.500	"
Hexachlorobutadiene	ND	0.500	"
Isopropylbenzene	ND	0.500	"
Methyl acetate	ND	0.500	"
Methyl tert-butyl ether (MTBE)	ND	0.500	"
Methylcyclohexane	ND	0.500	"
Methylene chloride	ND	2.00	"
n-Butylbenzene	ND	0.500	"



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Flag
		Limit			Result					Limit	

**Batch BL81197 - EPA 5030B**

**Blank (BL81197-BLK1)**

Prepared: 12/21/2018 Analyzed: 12/22/2018

n-Propylbenzene	ND	0.500	ug/L								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	2.50	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								

<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	9.13		"	10.0		91.3	70-130				
<i>Surrogate: SURR: Toluene-d8</i>	9.64		"	10.0		96.4	81-117				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	10.2		"	10.0		102	79-122				

**LCS (BL81197-BS1)**

Prepared: 12/21/2018 Analyzed: 12/22/2018

1,1,1,2-Tetrachloroethane	9.48		ug/L	10.0		94.8	82-126				
1,1,1-Trichloroethane	10.2		"	10.0		102	78-130				
1,1,2,2-Tetrachloroethane	8.15		"	10.0		81.5	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2		"	10.0		112	70-130				
1,1,2-Trichloroethane	9.34		"	10.0		93.4	82-123				
1,1-Dichloroethane	10.8		"	10.0		108	82-129				
1,1-Dichloroethylene	10.9		"	10.0		109	70-130				
1,2,3-Trichlorobenzene	8.85		"	10.0		88.5	76-130				
1,2,3-Trichloropropane	8.84		"	10.0		88.4	77-128				
1,2,4-Trichlorobenzene	8.61		"	10.0		86.1	76-130				
1,2,4-Trimethylbenzene	9.13		"	10.0		91.3	82-132				
1,2-Dibromo-3-chloropropane	8.75		"	10.0		87.5	45-147				
1,2-Dibromoethane	9.55		"	10.0		95.5	83-124				
1,2-Dichlorobenzene	9.14		"	10.0		91.4	79-123				
1,2-Dichloroethane	10.0		"	10.0		100	73-130				
1,2-Dichloropropane	9.67		"	10.0		96.7	78-126				
1,3,5-Trimethylbenzene	9.29		"	10.0		92.9	80-131				
1,3-Dichlorobenzene	8.96		"	10.0		89.6	86-122				
1,4-Dichlorobenzene	9.00		"	10.0		90.0	85-124				
1,4-Dioxane	333		"	210		159	40-160				
2-Butanone	10.1		"	10.0		101	49-152				
2-Hexanone	9.23		"	10.0		92.3	51-146				
4-Methyl-2-pentanone	9.58		"	10.0		95.8	57-145				
Acetone	8.92		"	10.0		89.2	40-150				
Acrolein	5.67		"	10.0		56.7	10-153				
Acrylonitrile	11.3		"	10.0		113	51-150				
Benzene	11.1		"	10.0		111	85-126				
Bromochloromethane	11.0		"	10.0		110	77-128				
Bromodichloromethane	9.57		"	10.0		95.7	79-128				
Bromoform	8.67		"	10.0		86.7	78-130				



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD	
		Limit	Units							Limit	Flag

**Batch BL81197 - EPA 5030B**

**LCS (BL81197-BS1)**

Prepared: 12/21/2018 Analyzed: 12/22/2018

Bromomethane	5.83		ug/L	10.0		58.3	43-160				
Carbon disulfide	12.0		"	10.0		120	68-146				
Carbon tetrachloride	10.4		"	10.0		104	77-130				
Chlorobenzene	9.72		"	10.0		97.2	88-120				
Chloroethane	13.3		"	10.0		133	65-136				
Chloroform	10.4		"	10.0		104	82-128				
Chloromethane	9.76		"	10.0		97.6	43-155				
cis-1,2-Dichloroethylene	9.97		"	10.0		99.7	83-129				
cis-1,3-Dichloropropylene	8.94		"	10.0		89.4	80-130				
Cyclohexane	11.4		"	10.0		114	70-130				
Dibromochloromethane	9.51		"	10.0		95.1	80-130				
Dibromomethane	9.48		"	10.0		94.8	72-134				
Dichlorodifluoromethane	13.2		"	10.0		132	44-144				
Ethyl Benzene	9.76		"	10.0		97.6	80-130				
Hexachlorobutadiene	8.46		"	10.0		84.6	67-146				
Isopropylbenzene	9.25		"	10.0		92.5	76-130				
Methyl acetate	11.2		"	10.0		112	70-130				
Methyl tert-butyl ether (MTBE)	10.9		"	10.0		109	76-130				
Methylcyclohexane	9.92		"	10.0		99.2	72-130				
Methylene chloride	11.0		"	10.0		110	70-130				
n-Butylbenzene	9.33		"	10.0		93.3	79-132				
n-Propylbenzene	9.27		"	10.0		92.7	78-133				
o-Xylene	9.58		"	10.0		95.8	78-130				
p- & m- Xylenes	16.4		"	20.0		81.8	77-130				
p-Isopropyltoluene	9.29		"	10.0		92.9	81-136				
sec-Butylbenzene	9.81		"	10.0		98.1	79-137				
Styrene	9.13		"	10.0		91.3	70-130				
tert-Butyl alcohol (TBA)	64.9		"	50.0		130	25-162				
tert-Butylbenzene	9.31		"	10.0		93.1	77-138				
Tetrachloroethylene	7.59		"	10.0		75.9	82-130	Low Bias			
Toluene	9.96		"	10.0		99.6	80-127				
trans-1,2-Dichloroethylene	10.6		"	10.0		106	80-130				
trans-1,3-Dichloropropylene	8.61		"	10.0		86.1	78-130				
Trichloroethylene	10.9		"	10.0		109	82-128				
Trichlorofluoromethane	13.7		"	10.0		137	67-139				
Vinyl Chloride	12.2		"	10.0		122	70-130				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	9.23		"	10.0		92.3	70-130				
<i>Surrogate: SURR: Toluene-d8</i>	9.75		"	10.0		97.5	81-117				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	9.71		"	10.0		97.1	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit
<b>Batch BL81197 - EPA 5030B</b>										
<b>LCS Dup (BL81197-BSD1)</b>										
Prepared: 12/21/2018 Analyzed: 12/22/2018										
1,1,1,2-Tetrachloroethane	9.18		ug/L	10.0		91.8	82-126		3.22	30
1,1,1-Trichloroethane	9.88		"	10.0		98.8	78-130		3.48	20
1,1,2,2-Tetrachloroethane	8.50		"	10.0		85.0	76-129		4.20	20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	70-130		4.18	20
1,1,2-Trichloroethane	9.24		"	10.0		92.4	82-123		1.08	20
1,1-Dichloroethane	10.3		"	10.0		103	82-129		4.83	20
1,1-Dichloroethylene	10.4		"	10.0		104	70-130		4.77	20
1,2,3-Trichlorobenzene	8.75		"	10.0		87.5	76-130		1.14	20
1,2,3-Trichloropropane	8.73		"	10.0		87.3	77-128		1.25	30
1,2,4-Trichlorobenzene	8.37		"	10.0		83.7	76-130		2.83	20
1,2,4-Trimethylbenzene	8.81		"	10.0		88.1	82-132		3.57	20
1,2-Dibromo-3-chloropropane	8.87		"	10.0		88.7	45-147		1.36	20
1,2-Dibromoethane	9.37		"	10.0		93.7	83-124		1.90	20
1,2-Dichlorobenzene	8.88		"	10.0		88.8	79-123		2.89	20
1,2-Dichloroethane	9.79		"	10.0		97.9	73-130		2.12	20
1,2-Dichloropropane	9.43		"	10.0		94.3	78-126		2.51	20
1,3,5-Trimethylbenzene	8.89		"	10.0		88.9	80-131		4.40	30
1,3-Dichlorobenzene	8.78		"	10.0		87.8	86-122		2.03	20
1,4-Dichlorobenzene	8.69		"	10.0		86.9	85-124		3.50	20
1,4-Dioxane	309		"	210		147	40-160		7.73	20
2-Butanone	9.71		"	10.0		97.1	49-152		4.23	20
2-Hexanone	8.98		"	10.0		89.8	51-146		2.75	20
4-Methyl-2-pentanone	9.58		"	10.0		95.8	57-145		0.00	20
Acetone	8.50		"	10.0		85.0	40-150		4.82	20
Acrolein	5.53		"	10.0		55.3	10-153		2.50	30
Acrylonitrile	11.5		"	10.0		115	51-150		1.67	30
Benzene	10.7		"	10.0		107	85-126		3.68	20
Bromochloromethane	10.9		"	10.0		109	77-128		0.915	20
Bromodichloromethane	9.30		"	10.0		93.0	79-128		2.86	20
Bromoform	8.60		"	10.0		86.0	78-130		0.811	20
Bromomethane	6.33		"	10.0		63.3	43-160		8.22	20
Carbon disulfide	11.4		"	10.0		114	68-146		5.13	20
Carbon tetrachloride	9.95		"	10.0		99.5	77-130		4.33	20
Chlorobenzene	9.30		"	10.0		93.0	88-120		4.42	20
Chloroethane	12.4		"	10.0		124	65-136		6.86	20
Chloroform	10.2		"	10.0		102	82-128		2.52	20
Chloromethane	9.64		"	10.0		96.4	43-155		1.24	20
cis-1,2-Dichloroethylene	9.68		"	10.0		96.8	83-129		2.95	20
cis-1,3-Dichloropropylene	8.65		"	10.0		86.5	80-130		3.30	20
Cyclohexane	10.8		"	10.0		108	70-130		5.21	20
Dibromochloromethane	9.22		"	10.0		92.2	80-130		3.10	20
Dibromomethane	9.30		"	10.0		93.0	72-134		1.92	30
Dichlorodifluoromethane	12.7		"	10.0		127	44-144		4.01	20
Ethyl Benzene	9.38		"	10.0		93.8	80-130		3.97	20
Hexachlorobutadiene	7.77		"	10.0		77.7	67-146		8.50	30
Isopropylbenzene	8.82		"	10.0		88.2	76-130		4.76	20
Methyl acetate	12.0		"	10.0		120	70-130		7.04	20
Methyl tert-butyl ether (MTBE)	10.9		"	10.0		109	76-130		0.184	20
Methylcyclohexane	9.38		"	10.0		93.8	72-130		5.60	20
Methylene chloride	10.7		"	10.0		107	70-130		2.58	20
n-Butylbenzene	8.54		"	10.0		85.4	79-132		8.84	30



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	

**Batch BL81197 - EPA 5030B**

**LCS Dup (BL81197-BSD1)**

Prepared: 12/21/2018 Analyzed: 12/22/2018

n-Propylbenzene	8.88		ug/L	10.0		88.8	78-133			4.30	30
o-Xylene	9.23		"	10.0		92.3	78-130			3.72	20
p- & m- Xylenes	15.7		"	20.0		78.4	77-130			4.31	20
p-Isopropyltoluene	8.80		"	10.0		88.0	81-136			5.42	30
sec-Butylbenzene	9.27		"	10.0		92.7	79-137			5.66	30
Styrene	8.67		"	10.0		86.7	70-130			5.17	20
tert-Butyl alcohol (TBA)	63.5		"	50.0		127	25-162			2.13	30
tert-Butylbenzene	8.86		"	10.0		88.6	77-138			4.95	30
Tetrachloroethylene	7.15		"	10.0		71.5	82-130	Low Bias		5.97	20
Toluene	9.57		"	10.0		95.7	80-127			3.99	20
trans-1,2-Dichloroethylene	10.2		"	10.0		102	80-130			3.56	20
trans-1,3-Dichloropropylene	8.30		"	10.0		83.0	78-130			3.67	20
Trichloroethylene	10.1		"	10.0		101	82-128			7.41	20
Trichlorofluoromethane	13.1		"	10.0		131	67-139			4.55	20
Vinyl Chloride	11.6		"	10.0		116	70-130			4.37	20
Surrogate: SURR: 1,2-Dichloroethane-d4	9.36		"	10.0		93.6	70-130				
Surrogate: SURR: Toluene-d8	9.69		"	10.0		96.9	81-117				
Surrogate: SURR: p-Bromofluorobenzene	9.56		"	10.0		95.6	79-122				

**Batch BL81250 - EPA 5035A**

**Blank (BL81250-BLK1)**

Prepared & Analyzed: 12/24/2018

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

**Batch BL81250 - EPA 5035A**

**Blank (BL81250-BLK1)**

Prepared & Analyzed: 12/24/2018

Bromoform	ND	0.0050	mg/kg wet										
Bromomethane	ND	0.0050	"										
Carbon disulfide	ND	0.0050	"										
Carbon tetrachloride	ND	0.0050	"										
Chlorobenzene	ND	0.0050	"										
Chloroethane	ND	0.0050	"										
Chloroform	ND	0.0050	"										
Chloromethane	ND	0.0050	"										
cis-1,2-Dichloroethylene	ND	0.0050	"										
cis-1,3-Dichloropropylene	ND	0.0050	"										
Cyclohexane	ND	0.0050	"										
Dibromochloromethane	ND	0.0050	"										
Dibromomethane	ND	0.0050	"										
Dichlorodifluoromethane	ND	0.0050	"										
Ethyl Benzene	ND	0.0050	"										
Hexachlorobutadiene	ND	0.0050	"										
Isopropylbenzene	ND	0.0050	"										
Methyl acetate	ND	0.0050	"										
Methyl tert-butyl ether (MTBE)	ND	0.0050	"										
Methylcyclohexane	ND	0.0050	"										
Methylene chloride	ND	0.010	"										
n-Butylbenzene	ND	0.0050	"										
n-Propylbenzene	ND	0.0050	"										
o-Xylene	ND	0.0050	"										
p- & m- Xylenes	ND	0.010	"										
p-Isopropyltoluene	ND	0.0050	"										
sec-Butylbenzene	ND	0.0050	"										
Styrene	ND	0.0050	"										
tert-Butyl alcohol (TBA)	ND	0.025	"										
tert-Butylbenzene	ND	0.0050	"										
Tetrachloroethylene	ND	0.0050	"										
Toluene	ND	0.0050	"										
trans-1,2-Dichloroethylene	ND	0.0050	"										
trans-1,3-Dichloropropylene	ND	0.0050	"										
Trichloroethylene	ND	0.0050	"										
Trichlorofluoromethane	ND	0.0050	"										
Vinyl Chloride	ND	0.0050	"										
Xylenes, Total	ND	0.015	"										

Surrogate: SURRE: 1,2-Dichloroethane-d4	50.0		ug/L	50.0		100	77-125
Surrogate: SURRE: Toluene-d8	49.3		"	50.0		98.6	85-120
Surrogate: SURRE: p-Bromofluorobenzene	49.8		"	50.0		99.7	76-130



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BL81250 - EPA 5035A**

**Blank (BL81250-BLK2)**

Prepared & Analyzed: 12/24/2018

1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								





Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL81250 - EPA 5035A

Blank (BL81250-BLK2)

Prepared & Analyzed: 12/24/2018

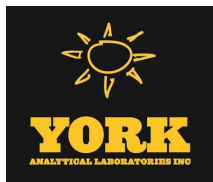
n-Propylbenzene	ND	0.50	mg/kg wet								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	2.5	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								

Surrogate: SURR: 1,2-Dichloroethane-d4	50.0		ug/L	50.0		99.9	77-125				
Surrogate: SURR: Toluene-d8	49.4		"	50.0		98.8	85-120				
Surrogate: SURR: p-Bromofluorobenzene	50.0		"	50.0		100	76-130				

LCS (BL81250-BS1)

Prepared & Analyzed: 12/24/2018

1,1,1,2-Tetrachloroethane	49.7		ug/L	50.0		99.5	75-129				
1,1,1-Trichloroethane	50.7		"	50.0		101	71-137				
1,1,2,2-Tetrachloroethane	49.0		"	50.0		97.9	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53.8		"	50.0		108	58-146				
1,1,2-Trichloroethane	48.6		"	50.0		97.3	83-123				
1,1-Dichloroethane	52.0		"	50.0		104	75-130				
1,1-Dichloroethylene	50.7		"	50.0		101	64-137				
1,2,3-Trichlorobenzene	49.5		"	50.0		99.1	81-140				
1,2,3-Trichloropropane	49.7		"	50.0		99.3	81-126				
1,2,4-Trichlorobenzene	49.2		"	50.0		98.4	80-141				
1,2,4-Trimethylbenzene	49.1		"	50.0		98.1	84-125				
1,2-Dibromo-3-chloropropane	46.4		"	50.0		92.8	74-142				
1,2-Dibromoethane	49.0		"	50.0		97.9	86-123				
1,2-Dichlorobenzene	50.2		"	50.0		100	85-122				
1,2-Dichloroethane	52.4		"	50.0		105	71-133				
1,2-Dichloropropane	48.0		"	50.0		96.0	81-122				
1,3,5-Trimethylbenzene	49.1		"	50.0		98.1	82-126				
1,3-Dichlorobenzene	48.4		"	50.0		96.9	84-124				
1,4-Dichlorobenzene	48.6		"	50.0		97.2	84-124				
1,4-Dioxane	1060		"	1050		101	10-228				
2-Butanone	53.4		"	50.0		107	58-147				
2-Hexanone	43.9		"	50.0		87.8	70-139				
4-Methyl-2-pentanone	47.0		"	50.0		94.0	72-132				
Acetone	42.0		"	50.0		83.9	36-155				
Acrolein	108		"	50.0		216	10-238				
Acrylonitrile	51.2		"	50.0		102	66-141				
Benzene	52.6		"	50.0		105	77-127				
Bromochloromethane	52.7		"	50.0		105	74-129				
Bromodichloromethane	48.8		"	50.0		97.7	81-124				
Bromoform	45.7		"	50.0		91.4	80-136				



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	
		Limit								Units	Level

**Batch BL81250 - EPA 5035A**

**LCS (BL81250-BS1)**

Prepared & Analyzed: 12/24/2018

Bromomethane	67.4		ug/L	50.0		135	32-177				
Carbon disulfide	51.2		"	50.0		102	10-136				
Carbon tetrachloride	51.1		"	50.0		102	66-143				
Chlorobenzene	49.9		"	50.0		99.8	86-120				
Chloroethane	65.4		"	50.0		131	51-142				
Chloroform	52.1		"	50.0		104	76-131				
Chloromethane	62.0		"	50.0		124	49-132				
cis-1,2-Dichloroethylene	51.7		"	50.0		103	74-132				
cis-1,3-Dichloropropylene	47.6		"	50.0		95.1	81-129				
Cyclohexane	47.6		"	50.0		95.2	70-130				
Dibromochloromethane	48.6		"	50.0		97.1	10-200				
Dibromomethane	48.7		"	50.0		97.3	83-124				
Dichlorodifluoromethane	76.6		"	50.0		153	28-158				
Ethyl Benzene	50.4		"	50.0		101	84-125				
Hexachlorobutadiene	49.7		"	50.0		99.4	83-133				
Isopropylbenzene	48.5		"	50.0		96.9	81-127				
Methyl acetate	46.6		"	50.0		93.3	41-143				
Methyl tert-butyl ether (MTBE)	52.5		"	50.0		105	74-131				
Methylcyclohexane	50.5		"	50.0		101	70-130				
Methylene chloride	51.0		"	50.0		102	57-141				
n-Butylbenzene	49.4		"	50.0		98.9	80-130				
n-Propylbenzene	48.7		"	50.0		97.4	74-136				
o-Xylene	50.3		"	50.0		101	83-123				
p- & m- Xylenes	100		"	100		100	82-128				
p-Isopropyltoluene	50.0		"	50.0		100	85-125				
sec-Butylbenzene	51.3		"	50.0		103	83-125				
Styrene	49.9		"	50.0		99.9	86-126				
tert-Butyl alcohol (TBA)	257		"	250		103	70-130				
tert-Butylbenzene	43.3		"	50.0		86.5	80-127				
Tetrachloroethylene	46.0		"	50.0		92.1	80-129				
Toluene	50.8		"	50.0		102	85-121				
trans-1,2-Dichloroethylene	50.9		"	50.0		102	72-132				
trans-1,3-Dichloropropylene	47.3		"	50.0		94.6	78-132				
Trichloroethylene	49.6		"	50.0		99.2	84-123				
Trichlorofluoromethane	62.8		"	50.0		126	62-140				
Vinyl Chloride	64.2		"	50.0		128	52-130				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.7</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>48.9</i>		<i>"</i>	<i>50.0</i>		<i>97.7</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>48.6</i>		<i>"</i>	<i>50.0</i>		<i>97.3</i>	<i>76-130</i>				



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit
<b>Batch BL81250 - EPA 5035A</b>										
<b>LCS Dup (BL81250-BSD1)</b>										
Prepared & Analyzed: 12/24/2018										
1,1,1,2-Tetrachloroethane	49.8		ug/L	50.0		99.5	75-129		0.0201	30
1,1,1-Trichloroethane	50.5		"	50.0		101	71-137		0.336	30
1,1,2,2-Tetrachloroethane	48.8		"	50.0		97.5	79-129		0.450	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53.8		"	50.0		108	58-146		0.0371	30
1,1,2-Trichloroethane	48.2		"	50.0		96.3	83-123		0.992	30
1,1-Dichloroethane	51.7		"	50.0		103	75-130		0.559	30
1,1-Dichloroethylene	50.4		"	50.0		101	64-137		0.633	30
1,2,3-Trichlorobenzene	48.3		"	50.0		96.5	81-140		2.58	30
1,2,3-Trichloropropane	49.5		"	50.0		99.0	81-126		0.383	30
1,2,4-Trichlorobenzene	47.8		"	50.0		95.6	80-141		2.83	30
1,2,4-Trimethylbenzene	48.0		"	50.0		96.0	84-125		2.21	30
1,2-Dibromo-3-chloropropane	46.8		"	50.0		93.5	74-142		0.795	30
1,2-Dibromoethane	49.2		"	50.0		98.5	86-123		0.570	30
1,2-Dichlorobenzene	49.8		"	50.0		99.5	85-122		0.800	30
1,2-Dichloroethane	54.3		"	50.0		109	71-133		3.54	30
1,2-Dichloropropane	47.9		"	50.0		95.7	81-122		0.334	30
1,3,5-Trimethylbenzene	48.8		"	50.0		97.5	82-126		0.634	30
1,3-Dichlorobenzene	48.1		"	50.0		96.2	84-124		0.705	30
1,4-Dichlorobenzene	48.3		"	50.0		96.7	84-124		0.557	30
1,4-Dioxane	1030		"	1050		98.3	10-228		2.37	30
2-Butanone	51.7		"	50.0		103	58-147		3.37	30
2-Hexanone	43.8		"	50.0		87.7	70-139		0.160	30
4-Methyl-2-pentanone	46.5		"	50.0		93.1	72-132		1.05	30
Acetone	40.8		"	50.0		81.7	36-155		2.70	30
Acrolein	105		"	50.0		211	10-238		2.38	30
Acrylonitrile	49.8		"	50.0		99.6	66-141		2.79	30
Benzene	52.2		"	50.0		104	77-127		0.687	30
Bromochloromethane	52.3		"	50.0		105	74-129		0.705	30
Bromodichloromethane	48.6		"	50.0		97.2	81-124		0.534	30
Bromoform	45.1		"	50.0		90.3	80-136		1.26	30
Bromomethane	67.9		"	50.0		136	32-177		0.710	30
Carbon disulfide	51.5		"	50.0		103	10-136		0.603	30
Carbon tetrachloride	51.0		"	50.0		102	66-143		0.137	30
Chlorobenzene	50.0		"	50.0		99.9	86-120		0.0601	30
Chloroethane	65.4		"	50.0		131	51-142		0.107	30
Chloroform	51.8		"	50.0		104	76-131		0.577	30
Chloromethane	61.4		"	50.0		123	49-132		0.988	30
cis-1,2-Dichloroethylene	51.7		"	50.0		103	74-132		0.0193	30
cis-1,3-Dichloropropylene	47.7		"	50.0		95.4	81-129		0.336	30
Cyclohexane	47.5		"	50.0		95.0	70-130		0.231	30
Dibromochloromethane	48.3		"	50.0		96.5	10-200		0.620	30
Dibromomethane	48.5		"	50.0		96.9	83-124		0.432	30
Dichlorodifluoromethane	76.8		"	50.0		154	28-158		0.143	30
Ethyl Benzene	50.2		"	50.0		100	84-125		0.258	30
Hexachlorobutadiene	48.7		"	50.0		97.4	83-133		2.09	30
Isopropylbenzene	48.2		"	50.0		96.5	81-127		0.496	30
Methyl acetate	46.2		"	50.0		92.3	41-143		0.991	30
Methyl tert-butyl ether (MTBE)	52.2		"	50.0		104	74-131		0.573	30
Methylcyclohexane	50.6		"	50.0		101	70-130		0.218	30
Methylene chloride	50.4		"	50.0		101	57-141		1.24	30
n-Butylbenzene	55.0		"	50.0		110	80-130		10.7	30



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	

**Batch BL81250 - EPA 5035A**

**LCS Dup (BL81250-BSD1)**

Prepared & Analyzed: 12/24/2018

n-Propylbenzene	48.5		ug/L	50.0		97.0	74-136			0.473	30
o-Xylene	50.3		"	50.0		101	83-123			0.0398	30
p- & m- Xylenes	100		"	100		100	82-128			0.319	30
p-Isopropyltoluene	49.9		"	50.0		99.7	85-125			0.360	30
sec-Butylbenzene	51.4		"	50.0		103	83-125			0.175	30
Styrene	49.9		"	50.0		99.9	86-126			0.00	30
tert-Butyl alcohol (TBA)	252		"	250		101	70-130			1.93	30
tert-Butylbenzene	43.2		"	50.0		86.5	80-127			0.0925	30
Tetrachloroethylene	45.7		"	50.0		91.3	80-129			0.829	30
Toluene	50.8		"	50.0		102	85-121			0.0197	30
trans-1,2-Dichloroethylene	50.7		"	50.0		101	72-132			0.374	30
trans-1,3-Dichloropropylene	47.3		"	50.0		94.7	78-132			0.0423	30
Trichloroethylene	49.0		"	50.0		98.0	84-123			1.20	30
Trichlorofluoromethane	62.4		"	50.0		125	62-140			0.751	30
Vinyl Chloride	63.6		"	50.0		127	52-130			0.907	30
Surrogate: SURR: 1,2-Dichloroethane-d4	50.2		"	50.0		100	77-125				
Surrogate: SURR: Toluene-d8	49.1		"	50.0		98.3	85-120				
Surrogate: SURR: p-Bromofluorobenzene	48.5		"	50.0		97.0	76-130				

**Batch BL81252 - EPA 5030B**

**Blank (BL81252-BLK1)**

Prepared & Analyzed: 12/24/2018

1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

**Batch BL81252 - EPA 5030B**

**Blank (BL81252-BLK1)**

Prepared & Analyzed: 12/24/2018

Bromoform	ND	0.500	ug/L								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								

<i>Surrogate: SURRE: 1,2-Dichloroethane-d4</i>	9.14	"	10.0	91.4	69-130
<i>Surrogate: SURRE: Toluene-d8</i>	9.55	"	10.0	95.5	81-117
<i>Surrogate: SURRE: p-Bromofluorobenzene</i>	10.2	"	10.0	102	79-122



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL81252 - EPA 5030B

LCS (BL81252-BS1)

Prepared & Analyzed: 12/24/2018

1,1,1,2-Tetrachloroethane	9.42		ug/L	10.0		94.2	82-126				
1,1,1-Trichloroethane	10.2		"	10.0		102	78-136				
1,1,2,2-Tetrachloroethane	9.82		"	10.0		98.2	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2		"	10.0		112	54-165				
1,1,2-Trichloroethane	9.67		"	10.0		96.7	82-123				
1,1-Dichloroethane	10.8		"	10.0		108	82-129				
1,1-Dichloroethylene	10.9		"	10.0		109	68-138				
1,2,3-Trichlorobenzene	8.77		"	10.0		87.7	76-136				
1,2,3-Trichloropropane	9.38		"	10.0		93.8	77-128				
1,2,4-Trichlorobenzene	8.89		"	10.0		88.9	76-137				
1,2,4-Trimethylbenzene	9.27		"	10.0		92.7	82-132				
1,2-Dibromo-3-chloropropane	9.23		"	10.0		92.3	45-147				
1,2-Dibromoethane	10.1		"	10.0		101	83-124				
1,2-Dichlorobenzene	9.28		"	10.0		92.8	79-123				
1,2-Dichloroethane	10.4		"	10.0		104	73-132				
1,2-Dichloropropane	9.95		"	10.0		99.5	78-126				
1,3,5-Trimethylbenzene	9.34		"	10.0		93.4	80-131				
1,3-Dichlorobenzene	9.13		"	10.0		91.3	86-122				
1,4-Dichlorobenzene	9.14		"	10.0		91.4	85-124				
1,4-Dioxane	406		"	210		194	10-349				
2-Butanone	11.7		"	10.0		117	49-152				
2-Hexanone	10.3		"	10.0		103	51-146				
4-Methyl-2-pentanone	10.2		"	10.0		102	57-145				
Acetone	9.51		"	10.0		95.1	14-150				
Acrolein	19.6		"	10.0		196	10-153	High Bias			
Acrylonitrile	12.4		"	10.0		124	51-150				
Benzene	11.1		"	10.0		111	85-126				
Bromochloromethane	11.6		"	10.0		116	77-128				
Bromodichloromethane	9.58		"	10.0		95.8	79-128				
Bromoform	9.21		"	10.0		92.1	78-133				
Bromomethane	11.7		"	10.0		117	43-168				
Carbon disulfide	12.0		"	10.0		120	68-146				
Carbon tetrachloride	10.1		"	10.0		101	77-141				
Chlorobenzene	9.76		"	10.0		97.6	88-120				
Chloroethane	13.8		"	10.0		138	65-136	High Bias			
Chloroform	10.6		"	10.0		106	82-128				
Chloromethane	12.2		"	10.0		122	43-155				
cis-1,2-Dichloroethylene	10.8		"	10.0		108	83-129				
cis-1,3-Dichloropropylene	9.85		"	10.0		98.5	80-131				
Cyclohexane	11.3		"	10.0		113	63-149				
Dibromochloromethane	9.71		"	10.0		97.1	80-130				
Dibromomethane	9.72		"	10.0		97.2	72-134				
Dichlorodifluoromethane	14.9		"	10.0		149	44-144	High Bias			
Ethyl Benzene	9.79		"	10.0		97.9	80-131				
Hexachlorobutadiene	8.63		"	10.0		86.3	67-146				
Isopropylbenzene	9.20		"	10.0		92.0	76-140				
Methyl acetate	11.5		"	10.0		115	51-139				
Methyl tert-butyl ether (MTBE)	11.3		"	10.0		113	76-135				
Methylcyclohexane	9.94		"	10.0		99.4	72-143				
Methylene chloride	11.5		"	10.0		115	55-137				
n-Butylbenzene	9.93		"	10.0		99.3	79-132				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BL81252 - EPA 5030B</b>											
<b>LCS (BL81252-BS1)</b>											
Prepared & Analyzed: 12/24/2018											
n-Propylbenzene	9.39		ug/L	10.0		93.9	78-133				
o-Xylene	9.66		"	10.0		96.6	78-130				
p- & m- Xylenes	16.4		"	20.0		82.2	77-133				
p-Isopropyltoluene	9.47		"	10.0		94.7	81-136				
sec-Butylbenzene	9.76		"	10.0		97.6	79-137				
Styrene	9.49		"	10.0		94.9	67-132				
tert-Butyl alcohol (TBA)	72.8		"	50.0		146	25-162				
tert-Butylbenzene	9.26		"	10.0		92.6	77-138				
Tetrachloroethylene	7.24		"	10.0		72.4	82-131	Low Bias			
Toluene	9.95		"	10.0		99.5	80-127				
trans-1,2-Dichloroethylene	10.7		"	10.0		107	80-132				
trans-1,3-Dichloropropylene	9.68		"	10.0		96.8	78-131				
Trichloroethylene	9.71		"	10.0		97.1	82-128				
Trichlorofluoromethane	14.1		"	10.0		141	67-139	High Bias			
Vinyl Chloride	13.2		"	10.0		132	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	9.27		"	10.0		92.7	69-130				
Surrogate: SURR: Toluene-d8	9.64		"	10.0		96.4	81-117				
Surrogate: SURR: p-Bromofluorobenzene	9.81		"	10.0		98.1	79-122				
<b>LCS Dup (BL81252-BSD1)</b>											
Prepared & Analyzed: 12/24/2018											
1,1,1,2-Tetrachloroethane	9.15		ug/L	10.0		91.5	82-126		2.91		30
1,1,1-Trichloroethane	9.68		"	10.0		96.8	78-136		5.72		30
1,1,2,2-Tetrachloroethane	9.79		"	10.0		97.9	76-129		0.306		30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5		"	10.0		105	54-165		6.10		30
1,1,2-Trichloroethane	9.45		"	10.0		94.5	82-123		2.30		30
1,1-Dichloroethane	10.3		"	10.0		103	82-129		4.82		30
1,1-Dichloroethylene	10.4		"	10.0		104	68-138		4.80		30
1,2,3-Trichlorobenzene	8.44		"	10.0		84.4	76-136		3.83		30
1,2,3-Trichloropropane	9.34		"	10.0		93.4	77-128		0.427		30
1,2,4-Trichlorobenzene	8.56		"	10.0		85.6	76-137		3.78		30
1,2,4-Trimethylbenzene	9.07		"	10.0		90.7	82-132		2.18		30
1,2-Dibromo-3-chloropropane	9.31		"	10.0		93.1	45-147		0.863		30
1,2-Dibromoethane	9.73		"	10.0		97.3	83-124		3.43		30
1,2-Dichlorobenzene	9.11		"	10.0		91.1	79-123		1.85		30
1,2-Dichloroethane	10.0		"	10.0		100	73-132		3.33		30
1,2-Dichloropropane	9.59		"	10.0		95.9	78-126		3.68		30
1,3,5-Trimethylbenzene	9.12		"	10.0		91.2	80-131		2.38		30
1,3-Dichlorobenzene	8.92		"	10.0		89.2	86-122		2.33		30
1,4-Dichlorobenzene	9.02		"	10.0		90.2	85-124		1.32		30
1,4-Dioxane	441		"	210		210	10-349		8.13		30
2-Butanone	11.3		"	10.0		113	49-152		3.47		30
2-Hexanone	10.1		"	10.0		101	51-146		2.35		30
4-Methyl-2-pentanone	9.93		"	10.0		99.3	57-145		2.39		30
Acetone	9.34		"	10.0		93.4	14-150		1.80		30
Acrolein	18.7		"	10.0		187	10-153	High Bias	4.91		30
Acrylonitrile	12.0		"	10.0		120	51-150		3.51		30
Benzene	10.6		"	10.0		106	85-126		4.60		30
Bromochloromethane	11.3		"	10.0		113	77-128		2.45		30
Bromodichloromethane	9.14		"	10.0		91.4	79-128		4.70		30
Bromoform	8.92		"	10.0		89.2	78-133		3.20		30
Bromomethane	12.1		"	10.0		121	43-168		3.44		30



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL81252 - EPA 5030B

LCS Dup (BL81252-BSD1)

Prepared & Analyzed: 12/24/2018

Carbon disulfide	11.4		ug/L	10.0		114	68-146		5.30	30	
Carbon tetrachloride	9.64		"	10.0		96.4	77-141		5.06	30	
Chlorobenzene	9.30		"	10.0		93.0	88-120		4.83	30	
Chloroethane	12.9		"	10.0		129	65-136		6.82	30	
Chloroform	10.1		"	10.0		101	82-128		3.96	30	
Chloromethane	11.6		"	10.0		116	43-155		4.53	30	
cis-1,2-Dichloroethylene	10.3		"	10.0		103	83-129		4.73	30	
cis-1,3-Dichloropropylene	9.46		"	10.0		94.6	80-131		4.04	30	
Cyclohexane	10.4		"	10.0		104	63-149		8.29	30	
Dibromochloromethane	9.34		"	10.0		93.4	80-130		3.88	30	
Dibromomethane	9.38		"	10.0		93.8	72-134		3.56	30	
Dichlorodifluoromethane	14.0		"	10.0		140	44-144		5.95	30	
Ethyl Benzene	9.33		"	10.0		93.3	80-131		4.81	30	
Hexachlorobutadiene	8.36		"	10.0		83.6	67-146		3.18	30	
Isopropylbenzene	9.02		"	10.0		90.2	76-140		1.98	30	
Methyl acetate	11.4		"	10.0		114	51-139		0.262	30	
Methyl tert-butyl ether (MTBE)	11.0		"	10.0		110	76-135		2.42	30	
Methylcyclohexane	9.14		"	10.0		91.4	72-143		8.39	30	
Methylene chloride	11.2		"	10.0		112	55-137		3.00	30	
n-Butylbenzene	9.19		"	10.0		91.9	79-132		7.74	30	
n-Propylbenzene	9.25		"	10.0		92.5	78-133		1.50	30	
o-Xylene	9.23		"	10.0		92.3	78-130		4.55	30	
p- & m- Xylenes	15.6		"	20.0		78.0	77-133		5.12	30	
p-Isopropyltoluene	9.15		"	10.0		91.5	81-136		3.44	30	
sec-Butylbenzene	9.51		"	10.0		95.1	79-137		2.59	30	
Styrene	9.08		"	10.0		90.8	67-132		4.42	30	
tert-Butyl alcohol (TBA)	70.8		"	50.0		142	25-162		2.83	30	
tert-Butylbenzene	9.06		"	10.0		90.6	77-138		2.18	30	
Tetrachloroethylene	6.71		"	10.0		67.1	82-131	Low Bias	7.60	30	
Toluene	9.45		"	10.0		94.5	80-127		5.15	30	
trans-1,2-Dichloroethylene	10.2		"	10.0		102	80-132		5.56	30	
trans-1,3-Dichloropropylene	9.19		"	10.0		91.9	78-131		5.19	30	
Trichloroethylene	9.21		"	10.0		92.1	82-128		5.29	30	
Trichlorofluoromethane	13.1		"	10.0		131	67-139		6.84	30	
Vinyl Chloride	12.4		"	10.0		124	58-145		6.34	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	9.18		"	10.0		91.8	69-130				
Surrogate: SURR: Toluene-d8	9.54		"	10.0		95.4	81-117				
Surrogate: SURR: p-Bromofluorobenzene	9.98		"	10.0		99.8	79-122				





Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL81227 - EPA 3550C

Blank (BL81227-BLK1)

Prepared & Analyzed: 12/24/2018

1,1-Biphenyl	ND	0.0417	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0833	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0417	"								
2,3,4,6-Tetrachlorophenol	ND	0.0833	"								
2,4,5-Trichlorophenol	ND	0.0417	"								
2,4,6-Trichlorophenol	ND	0.0417	"								
2,4-Dichlorophenol	ND	0.0417	"								
2,4-Dimethylphenol	ND	0.0417	"								
2,4-Dinitrophenol	ND	0.0833	"								
2,4-Dinitrotoluene	ND	0.0417	"								
2,6-Dinitrotoluene	ND	0.0417	"								
2-Chloronaphthalene	ND	0.0417	"								
2-Chlorophenol	ND	0.0417	"								
2-Methylnaphthalene	ND	0.0417	"								
2-Methylphenol	ND	0.0417	"								
2-Nitroaniline	ND	0.0833	"								
2-Nitrophenol	ND	0.0417	"								
3- & 4-Methylphenols	ND	0.0417	"								
3,3-Dichlorobenzidine	ND	0.0417	"								
3-Nitroaniline	ND	0.0833	"								
4,6-Dinitro-2-methylphenol	ND	0.0833	"								
4-Bromophenyl phenyl ether	ND	0.0417	"								
4-Chloro-3-methylphenol	ND	0.0417	"								
4-Chloroaniline	ND	0.0417	"								
4-Chlorophenyl phenyl ether	ND	0.0417	"								
4-Nitroaniline	ND	0.0833	"								
4-Nitrophenol	ND	0.0833	"								
Acenaphthene	ND	0.0417	"								
Acenaphthylene	ND	0.0417	"								
Acetophenone	ND	0.0417	"								
Aniline	ND	0.167	"								
Anthracene	ND	0.0417	"								
Atrazine	ND	0.0417	"								
Benzaldehyde	ND	0.0417	"								
Benzidine	ND	0.167	"								
Benzo(a)anthracene	ND	0.0417	"								
Benzo(a)pyrene	ND	0.0417	"								
Benzo(b)fluoranthene	ND	0.0417	"								
Benzo(g,h,i)perylene	ND	0.0417	"								
Benzo(k)fluoranthene	ND	0.0417	"								
Benzoic acid	ND	0.0417	"								
Benzyl alcohol	ND	0.0417	"								
Benzyl butyl phthalate	ND	0.0417	"								
Bis(2-chloroethoxy)methane	ND	0.0417	"								
Bis(2-chloroethyl)ether	ND	0.0417	"								
Bis(2-chloroisopropyl)ether	ND	0.0417	"								
Bis(2-ethylhexyl)phthalate	ND	0.0417	"								
Caprolactam	ND	0.0833	"								
Carbazole	ND	0.0417	"								
Chrysene	ND	0.0417	"								
Dibenzo(a,h)anthracene	ND	0.0417	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL81227 - EPA 3550C

Blank (BL81227-BLK1)

Prepared & Analyzed: 12/24/2018

Dibenzofuran	ND	0.0417	mg/kg wet								
Diethyl phthalate	ND	0.0417	"								
Dimethyl phthalate	ND	0.0417	"								
Di-n-butyl phthalate	ND	0.0417	"								
Di-n-octyl phthalate	ND	0.0417	"								
Diphenylamine	ND	0.0833	"								
Fluoranthene	ND	0.0417	"								
Fluorene	ND	0.0417	"								
Hexachlorobenzene	ND	0.0417	"								
Hexachlorobutadiene	ND	0.0417	"								
Hexachlorocyclopentadiene	ND	0.0417	"								
Hexachloroethane	ND	0.0417	"								
Indeno(1,2,3-cd)pyrene	ND	0.0417	"								
Isophorone	ND	0.0417	"								
Naphthalene	ND	0.0417	"								
Nitrobenzene	ND	0.0417	"								
N-Nitrosodimethylamine	ND	0.0417	"								
N-nitroso-di-n-propylamine	ND	0.0417	"								
N-Nitrosodiphenylamine	ND	0.0417	"								
Pentachlorophenol	ND	0.0417	"								
Phenanthrene	ND	0.0417	"								
Phenol	ND	0.0417	"								
Pyrene	ND	0.0417	"								
Pyridine	ND	0.167	"								
Surrogate: SURR: 2-Fluorophenol	1.07		"	1.67		64.4	20-108				
Surrogate: SURR: Phenol-d5	1.01		"	1.67		60.8	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.452		"	0.833		54.2	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.442		"	0.833		53.0	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1.18		"	1.67		71.1	19-110				
Surrogate: SURR: Terphenyl-d14	0.599		"	0.833		71.8	24-116				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL81227 - EPA 3550C

LCS (BL81227-BS1)

Prepared & Analyzed: 12/24/2018

1,1-Biphenyl	0.481	0.0417	mg/kg wet	0.833		57.8	18-111				
1,2,4,5-Tetrachlorobenzene	0.485	0.0833	"	4.17		11.6	21-131	Low Bias			
1,2-Diphenylhydrazine (as Azobenzene)	0.484	0.0417	"	0.833		58.1	17-137				
2,3,4,6-Tetrachlorophenol	0.499	0.0833	"	0.833		59.8	30-130				
2,4,5-Trichlorophenol	0.584	0.0417	"	0.833		70.1	27-118				
2,4,6-Trichlorophenol	0.546	0.0417	"	0.833		65.6	31-120				
2,4-Dichlorophenol	0.597	0.0417	"	0.833		71.7	20-127				
2,4-Dimethylphenol	0.575	0.0417	"	0.833		69.0	14-132				
2,4-Dinitrophenol	0.267	0.0833	"	0.833		32.0	10-171				
2,4-Dinitrotoluene	0.604	0.0417	"	0.833		72.5	34-131				
2,6-Dinitrotoluene	0.584	0.0417	"	0.833		70.0	31-128				
2-Chloronaphthalene	0.471	0.0417	"	0.833		56.5	31-117				
2-Chlorophenol	0.676	0.0417	"	0.833		81.2	33-113				
2-Methylnaphthalene	0.598	0.0417	"	0.833		71.8	12-138				
2-Methylphenol	0.540	0.0417	"	0.833		64.8	10-136				
2-Nitroaniline	0.644	0.0833	"	0.833		77.2	27-132				
2-Nitrophenol	0.703	0.0417	"	0.833		84.3	17-129				
3- & 4-Methylphenols	0.496	0.0417	"	0.833		59.5	29-103				
3,3-Dichlorobenzidine	ND	0.0417	"				22-149				
3-Nitroaniline	0.566	0.0833	"	0.833		67.9	20-133				
4,6-Dinitro-2-methylphenol	0.667	0.0833	"	0.833		80.1	10-143				
4-Bromophenyl phenyl ether	0.524	0.0417	"	0.833		62.9	29-120				
4-Chloro-3-methylphenol	0.477	0.0417	"	0.833		57.2	24-129				
4-Chloroaniline	0.312	0.0417	"	0.833		37.4	10-132				
4-Chlorophenyl phenyl ether	0.554	0.0417	"	0.833		66.5	27-124				
4-Nitroaniline	0.609	0.0833	"	0.833		73.1	16-128				
4-Nitrophenol	0.558	0.0833	"	0.833		67.0	10-141				
Acenaphthene	0.535	0.0417	"	0.833		64.2	30-121				
Acenaphthylene	0.459	0.0417	"	0.833		55.1	30-115				
Acetophenone	0.602	0.0417	"	0.833		72.2	20-112				
Aniline	0.452	0.167	"	0.833		54.2	10-119				
Anthracene	0.585	0.0417	"	0.833		70.2	34-118				
Atrazine	0.549	0.0417	"	0.833		65.9	26-112				
Benzaldehyde	0.592	0.0417	"	0.833		71.1	21-100				
Benzo(a)anthracene	0.631	0.0417	"	0.833		75.8	32-122				
Benzo(a)pyrene	0.605	0.0417	"	0.833		72.6	29-133				
Benzo(b)fluoranthene	0.581	0.0417	"	0.833		69.7	25-133				
Benzo(g,h,i)perylene	0.588	0.0417	"	0.833		70.5	10-143				
Benzo(k)fluoranthene	0.547	0.0417	"	0.833		65.6	25-128				
Benzoic acid	0.0900	0.0417	"	0.897		10.0	10-140				
Benzyl alcohol	0.668	0.0417	"	0.833		80.1	30-115				
Benzyl butyl phthalate	0.610	0.0417	"	0.833		73.2	26-126				
Bis(2-chloroethoxy)methane	0.480	0.0417	"	0.833		57.6	19-132				
Bis(2-chloroethyl)ether	0.577	0.0417	"	0.833		69.3	19-125				
Bis(2-chloroisopropyl)ether	0.649	0.0417	"	0.833		77.8	20-135				
Bis(2-ethylhexyl)phthalate	0.578	0.0417	"	0.833		69.3	10-155				
Caprolactam	0.526	0.0833	"	0.833		63.2	10-127				
Carbazole	0.545	0.0417	"	0.833		65.4	35-123				
Chrysene	0.561	0.0417	"	0.833		67.4	32-123				
Dibenzo(a,h)anthracene	0.590	0.0417	"	0.833		70.8	10-136				
Dibenzofuran	0.510	0.0417	"	0.833		61.2	29-121				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL81227 - EPA 3550C

LCS (BL81227-BS1)

Prepared & Analyzed: 12/24/2018

Diethyl phthalate	0.455	0.0417	mg/kg wet	0.833		54.6	34-116				
Dimethyl phthalate	0.475	0.0417	"	0.833		57.0	35-124				
Di-n-butyl phthalate	0.516	0.0417	"	0.833		61.9	31-116				
Di-n-octyl phthalate	0.630	0.0417	"	0.833		75.6	26-136				
Diphenylamine	0.613	0.0833	"	0.833		73.5	40-140				
Fluoranthene	0.542	0.0417	"	0.833		65.1	33-122				
Fluorene	0.519	0.0417	"	0.833		62.2	29-123				
Hexachlorobenzene	0.425	0.0417	"	0.833		51.0	21-124				
Hexachlorobutadiene	0.502	0.0417	"	0.833		60.2	10-149				
Hexachlorocyclopentadiene	0.489	0.0417	"	0.833		58.6	10-129				
Hexachloroethane	0.567	0.0417	"	0.833		68.0	28-108				
Indeno(1,2,3-cd)pyrene	0.574	0.0417	"	0.833		68.9	10-135				
Isophorone	0.531	0.0417	"	0.833		63.7	20-132				
Naphthalene	0.544	0.0417	"	0.833		65.3	23-124				
Nitrobenzene	0.545	0.0417	"	0.833		65.4	13-132				
N-Nitrosodimethylamine	0.541	0.0417	"	0.833		64.9	11-129				
N-nitroso-di-n-propylamine	0.563	0.0417	"	0.833		67.5	24-119				
N-Nitrosodiphenylamine	0.526	0.0417	"	0.833		63.2	22-152				
Pentachlorophenol	0.522	0.0417	"	0.833		62.6	10-139				
Phenanthrene	0.580	0.0417	"	0.833		69.6	33-123				
Phenol	0.655	0.0417	"	0.833		78.6	23-115				
Pyrene	0.685	0.0417	"	0.833		82.2	32-130				
Pyridine	0.501	0.167	"	0.833		60.1	10-91				
Surrogate: SURR: 2-Fluorophenol	1.14		"	1.67		68.3	20-108				
Surrogate: SURR: Phenol-d5	1.08		"	1.67		64.9	23-114				
Surrogate: SURR: Nitrobenzene-d5	0.472		"	0.833		56.6	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	0.455		"	0.833		54.6	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1.29		"	1.67		77.2	19-110				
Surrogate: SURR: Terphenyl-d14	0.675		"	0.833		81.0	24-116				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL81260 - EPA 3510C

Blank (BL81260-BLK1)

Prepared: 12/24/2018 Analyzed: 12/26/2018

1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	50.0	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BL81260 - EPA 3510C**

**Blank (BL81260-BLK1)**

Prepared: 12/24/2018 Analyzed: 12/26/2018

Surrogate: SURR: 2-Fluorophenol	20.9		ug/L	50.0		41.8	19.7-63.1				
Surrogate: SURR: Phenol-d5	11.6		"	50.0		23.3	10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	17.4		"	25.0		69.5	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	18.8		"	25.0		75.3	39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	48.2		"	50.0		96.5	39.3-151				
Surrogate: SURR: Terphenyl-d14	25.2		"	25.0		101	30.7-106				

**Blank (BL81260-BLK2)**

Prepared: 12/24/2018 Analyzed: 12/26/2018

Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit			Result					%REC	RPD
<b>Batch BL81260 - EPA 3510C</b>											
<b>LCS (BL81260-BS1)</b>											
Prepared: 12/24/2018 Analyzed: 12/26/2018											
1,1-Biphenyl	15.3	5.00	ug/L	25.0		61.2		33-95			
1,2,4,5-Tetrachlorobenzene	15.4	5.00	"	25.0		61.4		26-120			
1,2-Diphenylhydrazine (as Azobenzene)	16.8	5.00	"	25.0		67.2		16-141			
2,3,4,6-Tetrachlorophenol	19.2	5.00	"	25.0		76.6		30-130			
2,4,5-Trichlorophenol	21.4	5.00	"	25.0		85.4		32-114			
2,4,6-Trichlorophenol	20.7	5.00	"	25.0		82.6		35-118			
2,4-Dichlorophenol	20.9	5.00	"	25.0		83.6		25-116			
2,4-Dimethylphenol	21.0	5.00	"	25.0		84.1		15-116			
2,4-Dinitrophenol	35.2	5.00	"	25.0		141		10-170			
2,4-Dinitrotoluene	22.4	5.00	"	25.0		89.4		41-128			
2,6-Dinitrotoluene	21.8	5.00	"	25.0		87.2		45-116			
2-Chloronaphthalene	16.9	5.00	"	25.0		67.5		33-112			
2-Chlorophenol	18.7	5.00	"	25.0		74.7		15-120			
2-Methylnaphthalene	21.0	5.00	"	25.0		84.2		24-118			
2-Methylphenol	13.9	5.00	"	25.0		55.7		10-110			
2-Nitroaniline	24.6	5.00	"	25.0		98.4		34-129			
2-Nitrophenol	24.6	5.00	"	25.0		98.5		28-118			
3- & 4-Methylphenols	10.9	5.00	"	25.0		43.8		10-107			
3,3-Dichlorobenzidine	ND	5.00	"					15-187			
3-Nitroaniline	16.6	5.00	"	25.0		66.3		24-134			
4,6-Dinitro-2-methylphenol	35.7	5.00	"	25.0		143		10-153			
4-Bromophenyl phenyl ether	20.0	5.00	"	25.0		79.9		34-120			
4-Chloro-3-methylphenol	17.4	5.00	"	25.0		69.7		20-120			
4-Chloroaniline	14.7	5.00	"	25.0		58.9		10-147			
4-Chlorophenyl phenyl ether	19.5	5.00	"	25.0		78.1		27-121			
4-Nitroaniline	13.6	5.00	"	25.0		54.6		13-134			
4-Nitrophenol	9.78	5.00	"	25.0		39.1		10-131			
Acetophenone	18.6	5.00	"	25.0		74.3		25-110			
Aniline	10.5	5.00	"	25.0		42.0		10-117			
Benzaldehyde	18.9	5.00	"	25.0		75.6		29-117			
Benzoic acid	ND	50.0	"	26.9				30-130	Low Bias		
Benzyl alcohol	16.1	5.00	"	25.0		64.3		10-117			
Benzyl butyl phthalate	23.1	5.00	"	25.0		92.4		29-133			
Bis(2-chloroethoxy)methane	16.9	5.00	"	25.0		67.4		10-154			
Bis(2-chloroethyl)ether	17.8	5.00	"	25.0		71.1		17-125			
Bis(2-chloroisopropyl)ether	21.3	5.00	"	25.0		85.2		10-139			
Caprolactam	3.73	5.00	"	25.0		14.9		10-137			
Carbazole	19.3	5.00	"	25.0		77.2		42-126			
Dibenzofuran	18.7	5.00	"	25.0		74.7		36-113			
Diethyl phthalate	16.0	5.00	"	25.0		63.8		38-115			
Dimethyl phthalate	17.8	5.00	"	25.0		71.0		38-129			
Di-n-butyl phthalate	17.5	5.00	"	25.0		70.0		31-120			
Di-n-octyl phthalate	21.4	5.00	"	25.0		85.6		21-149			
Diphenylamine	24.0	5.00	"	25.0		96.2		40-140			
Hexachlorocyclopentadiene	14.8	10.0	"	25.0		59.4		10-130			
Isophorone	17.8	5.00	"	25.0		71.2		25-127			
N-nitroso-di-n-propylamine	18.8	5.00	"	25.0		75.1		26-122			
N-Nitrosodiphenylamine	20.2	5.00	"	25.0		80.8		23-149			
Phenol	6.69	5.00	"	25.0		26.8		10-110			
Pyridine	24.6	5.00	"	35.0		70.4		10-90			
Surrogate: SURR: 2-Fluorophenol	19.9		"	50.0		39.7		19.7-63.1			



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL81260 - EPA 3510C

LCS (BL81260-BS1)

Prepared: 12/24/2018 Analyzed: 12/26/2018

Surrogate: SURR: Phenol-d5	11.7		ug/L	50.0		23.3	10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	16.8		"	25.0		67.4	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	16.6		"	25.0		66.2	39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	48.1		"	50.0		96.3	39.3-151				
Surrogate: SURR: Terphenyl-d14	25.4		"	25.0		101	30.7-106				

LCS (BL81260-BS2)

Prepared: 12/24/2018 Analyzed: 12/26/2018

Acenaphthene	0.730	0.0500	ug/L	1.00		73.0	25-116				
Acenaphthylene	0.660	0.0500	"	1.00		66.0	26-116				
Anthracene	0.840	0.0500	"	1.00		84.0	25-123				
Benzo(a)anthracene	0.850	0.0500	"	1.00		85.0	33-125				
Benzo(a)pyrene	0.870	0.0500	"	1.00		87.0	32-132				
Benzo(b)fluoranthene	0.860	0.0500	"	1.00		86.0	22-137				
Benzo(g,h,i)perylene	0.810	0.0500	"	1.00		81.0	10-138				
Benzo(k)fluoranthene	0.970	0.0500	"	1.00		97.0	20-137				
Bis(2-ethylhexyl)phthalate	0.680	0.500	"	1.00		68.0	10-189				
Chrysene	0.920	0.0500	"	1.00		92.0	32-124				
Dibenzo(a,h)anthracene	0.810	0.0500	"	1.00		81.0	16-133				
Fluoranthene	0.920	0.0500	"	1.00		92.0	32-121				
Fluorene	0.760	0.0500	"	1.00		76.0	28-118				
Hexachlorobenzene	0.770	0.0200	"	1.00		77.0	23-124				
Hexachlorobutadiene	0.840	0.500	"	1.00		84.0	15-123				
Hexachloroethane	0.630	0.500	"	1.00		63.0	18-115				
Indeno(1,2,3-cd)pyrene	0.830	0.0500	"	1.00		83.0	15-135				
Naphthalene	0.790	0.0500	"	1.00		79.0	18-120				
Nitrobenzene	0.590	0.250	"	1.00		59.0	21-121				
N-Nitrosodimethylamine	ND	0.500	"	1.00			10-124	Low Bias			
Pentachlorophenol	0.600	0.250	"	1.00		60.0	10-156				
Phenanthrene	0.860	0.0500	"	1.00		86.0	24-127				
Pyrene	0.900	0.0500	"	1.00		90.0	31-132				

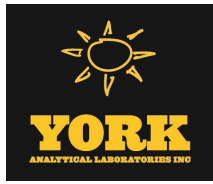




Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BL81260 - EPA 3510C</b>											
<b>LCS Dup (BL81260-BSD1)</b>											
						Prepared: 12/24/2018 Analyzed: 12/26/2018					
1,1-Biphenyl	14.5	5.00	ug/L	25.0		57.9	33-95		5.51	20	
1,2,4,5-Tetrachlorobenzene	14.0	5.00	"	25.0		55.8	26-120		9.55	20	
1,2-Diphenylhydrazine (as Azobenzene)	16.1	5.00	"	25.0		64.5	16-141		4.13	20	
2,3,4,6-Tetrachlorophenol	18.7	5.00	"	25.0		74.7	30-130		2.59	20	
2,4,5-Trichlorophenol	19.8	5.00	"	25.0		79.2	32-114		7.58	20	
2,4,6-Trichlorophenol	19.0	5.00	"	25.0		75.8	35-118		8.63	20	
2,4-Dichlorophenol	19.1	5.00	"	25.0		76.3	25-116		9.20	20	
2,4-Dimethylphenol	17.8	5.00	"	25.0		71.4	15-116		16.4	20	
2,4-Dinitrophenol	28.8	5.00	"	25.0		115	10-170		20.1	20	Non-dir.
2,4-Dinitrotoluene	21.0	5.00	"	25.0		83.8	41-128		6.46	20	
2,6-Dinitrotoluene	21.2	5.00	"	25.0		85.0	45-116		2.56	20	
2-Chloronaphthalene	15.1	5.00	"	25.0		60.6	33-112		10.8	20	
2-Chlorophenol	18.0	5.00	"	25.0		71.9	15-120		3.82	20	
2-Methylnaphthalene	18.4	5.00	"	25.0		73.6	24-118		13.4	20	
2-Methylphenol	12.5	5.00	"	25.0		50.0	10-110		10.7	20	
2-Nitroaniline	23.9	5.00	"	25.0		95.7	34-129		2.72	20	
2-Nitrophenol	23.7	5.00	"	25.0		94.9	28-118		3.76	20	
3- & 4-Methylphenols	9.97	5.00	"	25.0		39.9	10-107		9.28	20	
3,3-Dichlorobenzidine	ND	5.00	"				15-187			20	
3-Nitroaniline	18.6	5.00	"	25.0		74.6	24-134		11.7	20	
4,6-Dinitro-2-methylphenol	35.1	5.00	"	25.0		140	10-153		1.84	20	
4-Bromophenyl phenyl ether	20.1	5.00	"	25.0		80.5	34-120		0.698	20	
4-Chloro-3-methylphenol	15.5	5.00	"	25.0		62.1	20-120		11.6	20	
4-Chloroaniline	12.2	5.00	"	25.0		48.8	10-147		18.7	20	
4-Chlorophenyl phenyl ether	18.6	5.00	"	25.0		74.3	27-121		5.04	20	
4-Nitroaniline	18.1	5.00	"	25.0		72.3	13-134		27.9	20	Non-dir.
4-Nitrophenol	10.2	5.00	"	25.0		41.0	10-131		4.60	20	
Acetophenone	16.4	5.00	"	25.0		65.6	25-110		12.5	20	
Aniline	8.49	5.00	"	25.0		34.0	10-117		21.3	20	Non-dir.
Benzaldehyde	15.9	5.00	"	25.0		63.6	29-117		17.4	20	
Benzoic acid	ND	50.0	"	26.9			30-130	Low Bias		20	
Benzyl alcohol	12.5	5.00	"	25.0		50.1	10-117		24.8	20	Non-dir.
Benzyl butyl phthalate	23.6	5.00	"	25.0		94.5	29-133		2.18	20	
Bis(2-chloroethoxy)methane	15.9	5.00	"	25.0		63.5	10-154		6.05	20	
Bis(2-chloroethyl)ether	16.8	5.00	"	25.0		67.4	17-125		5.31	20	
Bis(2-chloroisopropyl)ether	19.1	5.00	"	25.0		76.5	10-139		10.7	20	
Caprolactam	4.29	5.00	"	25.0		17.2	10-137		14.0	20	
Carbazole	20.4	5.00	"	25.0		81.7	42-126		5.64	20	
Dibenzofuran	17.8	5.00	"	25.0		71.0	36-113		5.11	20	
Diethyl phthalate	16.2	5.00	"	25.0		64.7	38-115		1.37	20	
Dimethyl phthalate	17.0	5.00	"	25.0		67.8	38-129		4.55	20	
Di-n-butyl phthalate	17.8	5.00	"	25.0		71.2	31-120		1.70	20	
Di-n-octyl phthalate	22.1	5.00	"	25.0		88.2	21-149		3.08	20	
Diphenylamine	23.2	5.00	"	25.0		92.8	40-140		3.60	20	
Hexachlorocyclopentadiene	14.0	10.0	"	25.0		55.8	10-130		6.25	20	
Isophorone	16.2	5.00	"	25.0		64.8	25-127		9.29	20	
N-nitroso-di-n-propylamine	16.0	5.00	"	25.0		64.0	26-122		16.0	20	
N-Nitrosodiphenylamine	18.2	5.00	"	25.0		72.9	23-149		10.3	20	
Phenol	6.28	5.00	"	25.0		25.1	10-110		6.32	20	
Pyridine	17.2	5.00	"	35.0		49.1	10-90		35.6	20	Non-dir.
Surrogate: SURR: 2-Fluorophenol	18.2		"	50.0		36.4	19.7-63.1				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

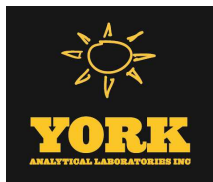
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL81260 - EPA 3510C

LCS Dup (BL81260-BSD1)

Prepared: 12/24/2018 Analyzed: 12/26/2018

Surrogate: SURR: Phenol-d5	10.4		ug/L	50.0		20.8	10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	14.6		"	25.0		58.6	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	15.0		"	25.0		60.1	39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	47.1		"	50.0		94.1	39.3-151				
Surrogate: SURR: Terphenyl-d14	25.0		"	25.0		100	30.7-106				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL81228 - EPA 3550C

Blank (BL81228-BLK1)

Prepared & Analyzed: 12/24/2018

4,4'-DDD	ND	0.000330	mg/kg wet								
4,4'-DDE	ND	0.000330	"								
4,4'-DDT	ND	0.000330	"								
Aldrin	ND	0.000330	"								
alpha-BHC	ND	0.000330	"								
alpha-Chlordane	ND	0.000330	"								
beta-BHC	ND	0.000330	"								
Chlordane, total	ND	0.00660	"								
delta-BHC	ND	0.000330	"								
Dieldrin	ND	0.000330	"								
Endosulfan I	ND	0.000330	"								
Endosulfan II	ND	0.000330	"								
Endosulfan sulfate	ND	0.000330	"								
Endrin	ND	0.000330	"								
Endrin aldehyde	ND	0.000330	"								
Endrin ketone	ND	0.000330	"								
gamma-BHC (Lindane)	ND	0.000330	"								
gamma-Chlordane	ND	0.000330	"								
Heptachlor	ND	0.000330	"								
Heptachlor epoxide	ND	0.000330	"								
Methoxychlor	ND	0.00165	"								
Toxaphene	ND	0.0167	"								

Surrogate: Decachlorobiphenyl	0.0583		"	0.0670		87.0	30-150				
Surrogate: Tetrachloro-m-xylene	0.0667		"	0.0673		99.1	30-150				

LCS (BL81228-BS1)

Prepared & Analyzed: 12/24/2018

4,4'-DDD	0.0450	0.000330	mg/kg wet	0.0333		135	40-140				
4,4'-DDE	0.0372	0.000330	"	0.0333		112	40-140				
4,4'-DDT	0.0461	0.000330	"	0.0333		138	40-140				
Aldrin	0.0340	0.000330	"	0.0333		102	40-140				
alpha-BHC	0.0367	0.000330	"	0.0333		110	40-140				
alpha-Chlordane	0.0339	0.000330	"	0.0333		102	40-140				
beta-BHC	0.0367	0.000330	"	0.0333		110	40-140				
delta-BHC	0.0421	0.000330	"	0.0333		126	40-140				
Dieldrin	0.0345	0.000330	"	0.0333		103	40-140				
Endosulfan I	0.0409	0.000330	"	0.0333		123	40-140				
Endosulfan II	0.0363	0.000330	"	0.0333		109	40-140				
Endosulfan sulfate	0.0387	0.000330	"	0.0333		116	40-140				
Endrin	0.0416	0.000330	"	0.0333		125	40-140				
Endrin aldehyde	0.0339	0.000330	"	0.0333		102	40-140				
Endrin ketone	0.0400	0.000330	"	0.0333		120	40-140				
gamma-BHC (Lindane)	0.0358	0.000330	"	0.0333		107	40-140				
gamma-Chlordane	0.0339	0.000330	"	0.0333		102	40-140				
Heptachlor	0.0372	0.000330	"	0.0333		112	40-140				
Heptachlor epoxide	0.0338	0.000330	"	0.0333		101	40-140				
Methoxychlor	0.0458	0.00165	"	0.0333		137	40-140				

Surrogate: Decachlorobiphenyl	0.0632		"	0.0670		94.4	30-150				
Surrogate: Tetrachloro-m-xylene	0.0632		"	0.0673		93.8	30-150				



**Polychlorinated Biphenyls by GC/ECD - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

**Batch BL81156 - EPA SW846-3510C Low Level**

**Blank (BL81156-BLK2)**

Prepared: 12/21/2018 Analyzed: 12/24/2018

Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
<i>Surrogate: Tetrachloro-m-xylene</i>	0.237		"	0.202		117		30-120			
<i>Surrogate: Decachlorobiphenyl</i>	0.171		"	0.201		85.1		30-120			

**LCS (BL81156-BS2)**

Prepared: 12/21/2018 Analyzed: 12/24/2018

Aroclor 1016	1.08	0.0500	ug/L	1.00		108		40-120			
Aroclor 1260	1.16	0.0500	"	1.00		116		40-120			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.239		"	0.202		118		30-120			
<i>Surrogate: Decachlorobiphenyl</i>	0.183		"	0.201		91.0		30-120			

**LCS Dup (BL81156-BSD2)**

Prepared: 12/21/2018 Analyzed: 12/24/2018

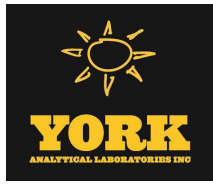
Aroclor 1016	1.03	0.0500	ug/L	1.00		103		40-120	4.80	30	
Aroclor 1260	1.04	0.0500	"	1.00		104		40-120	11.1	30	
<i>Surrogate: Tetrachloro-m-xylene</i>	0.234		"	0.202		116		30-120			
<i>Surrogate: Decachlorobiphenyl</i>	0.153		"	0.201		76.1		30-120			

**Batch BL81228 - EPA 3550C**

**Blank (BL81228-BLK2)**

Prepared & Analyzed: 12/24/2018

Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0833		"	0.0673		124		30-140			
<i>Surrogate: Decachlorobiphenyl</i>	0.0710		"	0.0670		106		30-140			



**Polychlorinated Biphenyls by GC/ECD - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	Flag	RPD	RPD	Limit	Flag
		Limit		Level	Result	Limits		Limit			
<b>Batch BL81228 - EPA 3550C</b>											
<b>LCS (BL81228-BS2)</b>										Prepared & Analyzed: 12/24/2018	
Aroclor 1016	0.327	0.0167	mg/kg wet	0.333		98.1				40-130	
Aroclor 1260	0.358	0.0167	"	0.333		107				40-130	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0747</i>		"	<i>0.0673</i>		<i>111</i>				<i>30-140</i>	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0583</i>		"	<i>0.0670</i>		<i>87.1</i>				<i>30-140</i>	



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	
		Limit								Limit	Flag

**Batch BL81072 - EPA 3050B**

**Blank (BL81072-BLK1)**

Prepared: 12/20/2018 Analyzed: 12/21/2018

Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	8.07	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	ND	2.50	"								

**Reference (BL81072-SRM1)**

Prepared: 12/20/2018 Analyzed: 12/21/2018

Aluminum	7290	5.00	mg/kg wet	8360	87.2	39.4-160.5
Antimony	64.3	2.50	"	75.5	85.2	25.1-275.7
Arsenic	158	1.50	"	161	98.2	69.9-132.9
Barium	247	2.50	"	260	95.1	71.5-136.3
Beryllium	104	0.050	"	97.6	107	75.4-138.1
Cadmium	207	0.300	"	211	98.0	73.3-141.5
Calcium	4820	5.00	"	4760	101	73.7-136.1
Chromium	128	0.500	"	136	93.8	69.1-143.3
Cobalt	49.9	0.400	"	48.2	104	74.6-142
Copper	175	2.00	"	166	106	72.7-141.6
Iron	10500	25.0	"	14100	74.1	35.6-163.9
Lead	105	0.500	"	111	94.2	70.8-137.1
Magnesium	2070	5.00	"	2340	88.4	63.6-136.1
Manganese	224	0.500	"	228	98.1	75.7-134.3
Nickel	102	1.00	"	91.9	111	70.7-146.3
Potassium	1830	5.00	"	2020	90.6	59.8-140.2
Selenium	167	2.50	"	191	87.2	67.1-136.8
Silver	41.2	0.500	"	43.3	95.1	66.5-139.5
Sodium	287	50.0	"	218	132	40.6-159.8
Thallium	178	2.50	"	156	114	68-136.2
Vanadium	48.0	1.00	"	56.7	84.7	58.9-141.8
Zinc	188	2.50	"	199	94.7	69.5-131.1



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BL81186 - EPA 3015A**

**Blank (BL81186-BLK1)**

Prepared & Analyzed: 12/21/2018

Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	0.0710	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								

**LCS (BL81186-BS1)**

Prepared & Analyzed: 12/21/2018

Aluminum	2.22		ug/mL	2.00		111	80-120				
Barium	2.05		"	2.00		102	80-120				
Calcium	0.968		"	1.00		96.8	80-120				
Chromium	0.205		"	0.200		102	80-120				
Cobalt	0.526		"	0.500		105	80-120				
Copper	0.266		"	0.250		106	80-120				
Iron	1.02		"	1.00		102	80-120				
Lead	0.485		"	0.500		97.1	80-120				
Magnesium	1.02		"	1.00		102	80-120				
Manganese	0.530		"	0.500		106	80-120				
Nickel	0.519		"	0.500		104	80-120				
Potassium	1.08		"	1.00		108	80-120				
Silver	0.0511		"	0.0500		102	80-120				
Sodium	1.33		"	1.00		133	80-120	High Bias			
Vanadium	0.505		"	0.500		101	80-120				
Zinc	0.487		"	0.500		97.4	80-120				



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BL81186 - EPA 3015A**

<b>Duplicate (BL81186-DUP1)</b>	<b>*Source sample: 18L0827-07 (TMW22_121818)</b>						<b>Prepared &amp; Analyzed: 12/21/2018</b>				
Aluminum	4.59	0.0556	mg/L		5.18				11.9	20	
Barium	0.207	0.0278	"		0.214				3.38	20	
Calcium	21.8	0.0556	"		22.1				1.59	20	
Chromium	0.0240	0.00556	"		0.0268				10.8	20	
Cobalt	0.0261	0.00444	"		0.0259				0.792	20	
Copper	0.0442	0.0222	"		0.0455				2.94	20	
Iron	6.81	0.278	"		7.69				12.1	20	
Lead	0.00563	0.00556	"		ND					20	
Magnesium	39.3	0.0556	"		39.8				1.19	20	
Manganese	3.09	0.00556	"		3.07				0.924	20	
Nickel	0.0394	0.0111	"		0.0438				10.6	20	
Potassium	21.5	0.0556	"		21.8				1.23	20	
Silver	ND	0.00556	"		ND					20	
Sodium	1290	0.556	"		1290				0.112	20	
Vanadium	0.0183	0.0111	"		0.0195				6.28	20	
Zinc	0.0293	0.0278	"		0.0333				12.8	20	

<b>Matrix Spike (BL81186-MS1)</b>	<b>*Source sample: 18L0827-07 (TMW22_121818)</b>						<b>Prepared &amp; Analyzed: 12/21/2018</b>				
Aluminum	6.85	0.0556	mg/L	2.22	5.18	75.5	75-125				
Barium	2.41	0.0278	"	2.22	0.214	98.7	75-125				
Calcium	22.7	0.0556	"	1.11	22.1	51.9	75-125	Low Bias			
Chromium	0.249	0.00556	"	0.222	0.0268	99.9	75-125				
Cobalt	0.596	0.00444	"	0.556	0.0259	103	75-125				
Copper	0.348	0.0222	"	0.278	0.0455	109	75-125				
Iron	8.67	0.278	"	1.11	7.69	88.1	75-125				
Lead	0.530	0.00556	"	0.556	ND	95.3	75-125				
Magnesium	40.6	0.0556	"	1.11	39.8	74.6	75-125	Low Bias			
Manganese	3.61	0.00556	"	0.556	3.07	97.9	75-125				
Nickel	0.628	0.0111	"	0.556	0.0438	105	75-125				
Potassium	22.7	0.0556	"	1.11	21.8	83.4	75-125				
Silver	0.0558	0.00556	"	0.0556	ND	100	75-125				
Sodium	1320	0.556	"	1.11	1290	NR	75-125	High Bias			
Vanadium	0.575	0.0111	"	0.556	0.0195	100	75-125				
Zinc	0.615	0.0278	"	0.556	0.0333	105	75-125				





**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

**Batch BL81201 - EPA 3015A**

**Blank (BL81201-BLK1)**

Prepared: 12/21/2018 Analyzed: 12/24/2018

Aluminum - Dissolved	ND	0.0556	mg/L
Barium - Dissolved	ND	0.0278	"
Calcium - Dissolved	ND	0.0556	"
Chromium - Dissolved	ND	0.00556	"
Cobalt - Dissolved	ND	0.00444	"
Copper - Dissolved	ND	0.0222	"
Iron - Dissolved	ND	0.278	"
Lead - Dissolved	ND	0.00556	"
Magnesium - Dissolved	ND	0.0556	"
Manganese - Dissolved	ND	0.00556	"
Nickel - Dissolved	ND	0.0111	"
Potassium - Dissolved	0.0718	0.0556	"
Silver - Dissolved	ND	0.00556	"
Sodium - Dissolved	ND	0.556	"
Vanadium - Dissolved	ND	0.0111	"
Zinc - Dissolved	ND	0.0278	"

**LCS (BL81201-BS1)**

Prepared: 12/21/2018 Analyzed: 12/24/2018

Aluminum - Dissolved	2.20	ug/mL	2.00	110	80-120
Barium - Dissolved	2.13	"	2.00	106	80-120
Calcium - Dissolved	0.944	"	1.00	94.4	80-120
Chromium - Dissolved	0.220	"	0.200	110	80-120
Cobalt - Dissolved	0.550	"	0.500	110	80-120
Copper - Dissolved	0.275	"	0.250	110	80-120
Iron - Dissolved	1.05	"	1.00	105	80-120
Lead - Dissolved	0.511	"	0.500	102	80-120
Magnesium - Dissolved	1.07	"	1.00	107	80-120
Manganese - Dissolved	0.529	"	0.500	106	80-120
Nickel - Dissolved	0.539	"	0.500	108	80-120
Potassium - Dissolved	1.08	"	1.00	108	80-120
Silver - Dissolved	0.0519	"	0.0500	104	80-120
Sodium - Dissolved	1.12	"	1.00	112	80-120
Vanadium - Dissolved	0.511	"	0.500	102	80-120
Zinc - Dissolved	0.501	"	0.500	100	80-120



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BL81201 - EPA 3015A**

<b>Duplicate (BL81201-DUP1)</b>	*Source sample: 18L0827-07 (TMW22_121818)						Prepared: 12/21/2018 Analyzed: 12/24/2018				
Aluminum - Dissolved	0.0646	0.0556	mg/L		ND						20
Barium - Dissolved	0.114	0.0278	"		0.114				0.459		20
Calcium - Dissolved	20.6	0.0556	"		20.8				0.559		20
Chromium - Dissolved	ND	0.00556	"		ND						20
Cobalt - Dissolved	0.0234	0.00444	"		0.0227				3.10		20
Copper - Dissolved	0.0358	0.0222	"		0.0359				0.0766		20
Iron - Dissolved	ND	0.278	"		ND						20
Lead - Dissolved	ND	0.00556	"		ND						20
Magnesium - Dissolved	37.7	0.0556	"		38.0				0.605		20
Manganese - Dissolved	2.86	0.00556	"		2.79				2.33		20
Nickel - Dissolved	0.0334	0.0111	"		0.0301				10.3		20
Potassium - Dissolved	20.7	0.0556	"		20.5				0.986		20
Silver - Dissolved	ND	0.00556	"		ND						20
Sodium - Dissolved	1080	0.556	"		1060				1.09		20
Vanadium - Dissolved	ND	0.0111	"		ND						20
Zinc - Dissolved	ND	0.0278	"		ND						20

<b>Matrix Spike (BL81201-MS1)</b>	*Source sample: 18L0827-07 (TMW22_121818)						Prepared: 12/21/2018 Analyzed: 12/24/2018				
Barium - Dissolved	2.39	0.0278	mg/L	2.22	0.114	103	75-125				
Chromium - Dissolved	0.240	0.00556	"	0.222	ND	108	75-125				
Cobalt - Dissolved	0.612	0.00444	"	0.556	0.0227	106	75-125				
Copper - Dissolved	0.349	0.0222	"	0.278	0.0359	113	75-125				
Iron - Dissolved	1.21	0.278	"	1.11	ND	109	75-125				
Lead - Dissolved	0.541	0.00556	"	0.556	ND	97.3	75-125				
Manganese - Dissolved	3.40	0.00556	"	0.556	2.79	109	75-125				
Nickel - Dissolved	0.644	0.0111	"	0.556	0.0301	110	75-125				
Silver - Dissolved	0.0591	0.00556	"	0.0556	ND	106	75-125				
Vanadium - Dissolved	0.574	0.0111	"	0.556	ND	103	75-125				
Zinc - Dissolved	0.595	0.0278	"	0.556	ND	107	75-125				



**Metals by ICP/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BL81187 - EPA 3015A**

**Blank (BL81187-BLK1)**

Prepared & Analyzed: 12/21/2018

Antimony	ND	0.00111	mg/L								
Arsenic	ND	0.00111	"								
Beryllium	ND	0.000333	"								
Cadmium	ND	0.000556	"								
Selenium	ND	0.00111	"								
Thallium	ND	0.00111	"								

**LCS (BL81187-BS1)**

Prepared & Analyzed: 12/21/2018

Antimony	53.2		ug/L	50.0		106	80-120				
Arsenic	51.4		"	50.0		103	80-120				
Beryllium	48.1		"	50.0		96.3	80-120				
Cadmium	47.2		"	50.0		94.4	80-120				
Selenium	50.1		"	50.0		100	80-120				
Thallium	48.1		"	50.0		96.2	80-120				

**Duplicate (BL81187-DUP1)**

\*Source sample: 18L0827-07 (TMW22\_121818)

Prepared & Analyzed: 12/21/2018

Antimony	ND	0.00111	mg/L		ND					20	
Arsenic	0.00280	0.00111	"		0.00283				0.911	20	
Beryllium	ND	0.000333	"		ND					20	
Cadmium	0.0128	0.000556	"		0.0128				0.0210	20	
Selenium	0.0557	0.00111	"		0.0362				42.5	20	Non-dir.
Thallium	ND	0.00111	"		ND					20	

**Matrix Spike (BL81187-MS1)**

\*Source sample: 18L0827-07 (TMW22\_121818)

Prepared & Analyzed: 12/21/2018

Antimony	55.3		ug/L	50.0	0.351	110	75-125				
Arsenic	55.0		"	50.0	2.55	105	75-125				
Beryllium	26.5		"	50.0	0.054	52.9	75-125	Low Bias			
Cadmium	56.0		"	50.0	11.5	89.1	75-125				
Selenium	109		"	50.0	32.6	152	75-125	High Bias			
Thallium	45.6		"	50.0	0.108	91.0	75-125				



**Metals by ICP/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Flag
		Limit		Level	Result	Limits	Limit				

**Batch BL81203 - EPA 3015A**

**Blank (BL81203-BLK1)**

Prepared: 12/21/2018 Analyzed: 12/24/2018

Antimony - Dissolved	ND	0.00111	mg/L								
Arsenic - Dissolved	ND	0.00111	"								
Beryllium - Dissolved	ND	0.000333	"								
Cadmium - Dissolved	ND	0.000556	"								
Selenium - Dissolved	0.00117	0.00111	"								
Thallium - Dissolved	ND	0.00111	"								

**LCS (BL81203-BS1)**

Prepared & Analyzed: 12/21/2018

Antimony - Dissolved	54.8		ug/L	50.0		110	80-120				
Arsenic - Dissolved	51.6		"	50.0		103	80-120				
Beryllium - Dissolved	49.9		"	50.0		99.7	80-120				
Cadmium - Dissolved	46.1		"	50.0		92.2	80-120				
Selenium - Dissolved	55.6		"	50.0		111	80-120				
Thallium - Dissolved	48.0		"	50.0		96.0	80-120				

**Duplicate (BL81203-DUP1)**

\*Source sample: 18L0827-07 (TMW22\_121818)

Prepared & Analyzed: 12/21/2018

Antimony - Dissolved	ND	0.00111	mg/L		ND					20	
Arsenic - Dissolved	ND	0.00111	"		ND					20	
Beryllium - Dissolved	ND	0.000333	"		ND					20	
Cadmium - Dissolved	0.0126	0.000556	"		0.0128				2.26	20	
Selenium - Dissolved	0.0478	0.00111	"		0.0289				49.4	20	Non-dir.
Thallium - Dissolved	ND	0.00111	"		ND					20	

**Matrix Spike (BL81203-MS1)**

\*Source sample: 18L0827-07 (TMW22\_121818)

Prepared & Analyzed: 12/21/2018

Antimony - Dissolved	63.9		ug/L	50.0	0.290	127	75-125	High Bias			
Arsenic - Dissolved	59.1		"	50.0	0.726	117	75-125				
Beryllium - Dissolved	41.2		"	50.0	0.006	82.3	75-125				
Cadmium - Dissolved	62.3		"	50.0	11.6	101	75-125				
Selenium - Dissolved	101		"	50.0	26.0	150	75-125	High Bias			
Thallium - Dissolved	56.6		"	50.0	0.157	113	75-125				



**Mercury by EPA 7000/200 Series Methods - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BL81067 - EPA 7473 water</b>											
<b>Blank (BL81067-BLK1)</b>										Prepared & Analyzed: 12/20/2018	
Mercury	ND	0.00020	mg/L								
<b>Duplicate (BL81067-DUP1)</b>										*Source sample: 18L0827-07 (TMW22_121818) Prepared & Analyzed: 12/20/2018	
Mercury	ND	0.00020	mg/L		ND						20
<b>Matrix Spike (BL81067-MS1)</b>										*Source sample: 18L0827-07 (TMW22_121818) Prepared & Analyzed: 12/20/2018	
Mercury	0.0100		mg/L	0.0100	0.00	100	75-125				
<b>Reference (BL81067-SRM1)</b>										Prepared & Analyzed: 12/20/2018	
Mercury	0.00999		mg/L	0.0100		99.9	70-130				
<b>Batch BL81068 - EPA 7473 soil</b>											
<b>Blank (BL81068-BLK1)</b>										Prepared & Analyzed: 12/20/2018	
Mercury	ND	0.0300	mg/kg wet								
<b>Reference (BL81068-SRM1)</b>										Prepared & Analyzed: 12/20/2018	
Mercury	9.1771		mg/kg	13.8		66.5	57.1-143.5				
<b>Batch BL81207 - EPA 7473 water</b>											
<b>Blank (BL81207-BLK1)</b>										Prepared & Analyzed: 12/21/2018	
Mercury - Dissolved	ND	0.0002000	mg/L								
<b>Reference (BL81207-SRM1)</b>										Prepared & Analyzed: 12/21/2018	
Mercury - Dissolved	0.01085		mg/L	0.0100		108	70-130				



**Wet Chemistry Parameters - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BL81145 - EPA SW846-3060</b>											
<b>Blank (BL81145-BLK1)</b>										Prepared & Analyzed: 12/21/2018	
Chromium, Hexavalent	ND	0.500	mg/kg wet								
<b>Reference (BL81145-SRM1)</b>										Prepared & Analyzed: 12/21/2018	
Chromium, Hexavalent	37.2		mg/L	76.9		48.3	20.3-212				
<b>Batch BL81149 - Analysis Preparation Soil</b>											
<b>Blank (BL81149-BLK1)</b>										Prepared & Analyzed: 12/21/2018	
Cyanide, total	ND	0.500	mg/kg wet								
<b>Reference (BL81149-SRM1)</b>										Prepared & Analyzed: 12/21/2018	
Cyanide, total	52.5		ug/mL	41.4		127	34.3-167				



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18L0827-01	SP21_3-5	40mL Vial with Stir Bar-Cool 4° C
18L0827-02	SP21_8-10	40mL Vial with Stir Bar-Cool 4° C
18L0827-03	SP21_13-15	40mL Vial with Stir Bar-Cool 4° C
18L0827-04	SP22_3-5	40mL Vial with Stir Bar-Cool 4° C
18L0827-05	SP22_9-11	40mL Vial with Stir Bar-Cool 4° C
18L0827-06	TMW21_121818	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18L0827-07	TMW22_121818	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18L0827-08	TB06_121818	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Sample and Data Qualifiers Relating to This Work Order

M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
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).
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
IS-LO	The internal std associated with this target compound did not meet acceptance criteria (area <50% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
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.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
A-01	Compound not added to spiking solution.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
S-09	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect confirmed by re-extraction and re-analysis of the sample.
M-ISO	The ICP/MS result reported for this element used an alternate isotope due to molecular interferences encountered with the sample matrix.
M-MBLK	Analyte was detected in the batch method blank above the Reporting Limit.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-SRD1	The serial dilution for this element was outside control 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.
QR-04	The RPD exceeded control limits for the LCS/LCSD QC.
M-CRL	The RL check for this element recovered outside of control limits.

### Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference





- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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

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



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

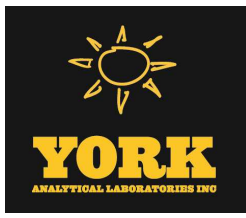
# Field Chain-of-Custody Record

YORK Project No.  
**18L0827**

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: <b>LAUGAN Engineering</b>	Company:	Address: <b>300 W 31st St</b>	Address:	Company:	Company:	Address: <b>New York, NY 10011</b>	Address:	Company:	Company:
Phone: <b>212 495 4000</b>	Phone:	Phone:	Phone:	Company:	Company:	Company:	Company:	Company:	Company:
Contact: <b>Jieung@laugan.com</b>	Contact:	Contact:	Contact:	Company:	Company:	Company:	Company:	Company:	Company:
E-mail: <b>dohamanager@laugan.com</b>	E-mail:	E-mail:	E-mail:	Company:	Company:	Company:	Company:	Company:	Company:
<p><b>Katherine Kacarelli</b></p> <p>Samples Collected by: (print your name above and sign below)</p> <p><i>Kacarelli</i></p>									
<p><b>Sample Identification</b></p> <p>SP21-3-5 SP21-8-10 SP21-13-15 SP22-3-5 SP22-9-11 TMW21-121818 TMW22-121818 TB06-121818</p>									
Matrix Codes		Samples From		Report / EDD Type (circle selections)		YORK Reg. Comp.		Compared to the following Regulation(s): (please fill in)	
S - soil / solid	GW - groundwater	New York	Summary Report	CT RCP	Standard Excel EDD	EQULS (Standard)	Standard	Standard	
DW - drinking water	WW - wastewater	New Jersey	QA Report	CT RCP DOA/DUE	EQULS (Standard)	EQULS (Standard)	Standard		
O - Oil ; Other		Connecticut	NY ASP A Package			NYSDEC EQUIS			
		Pennsylvania	NY ASP B Package			NJDEP Reduced Deliverables			
		Other				NJDEP SRP HazSite			
						Other:			
Sample Matrix		Date/Time Sampled		Analysis Requested		Container Description			
S		12/18/18	10:15	VOCs, SVOCs, metals (incl. hexavalent, trivalent chromium & cyanide) PCBs, pesticides					
		12:00							
		11:30							
		11:35							
GW		12:55		VOCs, SVOCs, PCBs, metals total					
		14:25		dissolved					
Other				VOCs					
<p><b>Comments:</b> TMW22-121818 was field filtered. Please lab filter sample TMW21-121818 (labeled on container)</p>									
Samples Relinquished by / Company		Date/Time		Samples Relinquished by / Company		Date/Time		Special Instruction	
LAUGAN		12/19/18	12:10	LAUGAN		12/19/18	12:10	Field Filtered Lab to Filter	
Kacarelli		12/14/18		Kacarelli		12/19/18	12:10		
Kacarelli				Kacarelli					
Samples Received by / Company		Date/Time		Samples Received by / Company		Date/Time		Temp. Received at Lab	
LAUGAN		12/19/18	12:10	LAUGAN		12/19/18	18:56		2.5



# Technical Report

prepared for:

## **Langan Engineering & Environmental Services (NYC)**

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

**Attention: Julia Leung**

Report Date: 12/27/2018

**Client Project ID: 170502901**

York Project (SDG) No.: 18L0829



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: 12/27/2018  
Client Project ID: 170502901  
York Project (SDG) No.: 18L0829

**Langan Engineering & Environmental Services (NYC)**  
21 Penn Plaza, 360 West 31st Street  
New York NY, 10001  
Attention: Julia Leung

## 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 December 20, 2018 and listed below. The project was identified as your project: **170502901**.

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>
18L0829-01	SV21_121818	Soil Vapor	12/18/2018	12/20/2018

## General Notes for York Project (SDG) No.: 18L0829

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: 12/27/2018





### Sample Information

**Client Sample ID:** SV21\_121818

**York Sample ID:** 18L0829-01

<u>York Project (SDG) No.</u> 18L0829	<u>Client Project ID</u> 170502901	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> December 18, 2018 11:35 am	<u>Date Received</u> 12/20/2018
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**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>	0.94	1.367	EPA TO-15 Certifications:	12/20/2018 08:00	12/20/2018 18:10	RB
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	0.75	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.94	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.0	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.75	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.55	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.14	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	1.0	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>11</b>		ug/m <sup>3</sup>	0.67	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.1	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.82	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.55	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.63	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.96	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>2.1</b>		ug/m <sup>3</sup>	0.67	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	0.91	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.82	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.63	1.367	EPA TO-15 Certifications:	12/20/2018 08:00	12/20/2018 18:10	RB
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.82	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	0.99	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
78-93-3	<b>2-Butanone</b>	<b>41</b>		ug/m <sup>3</sup>	0.40	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB



### Sample Information

**Client Sample ID:** SV21\_121818

**York Sample ID:** 18L0829-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0829

170502901

Soil Vapor

December 18, 2018 11:35 am

12/20/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	7.0		ug/m <sup>3</sup>	1.1	1.367	EPA TO-15 Certifications:	12/20/2018 08:00	12/20/2018 18:10	RB
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.1	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.56	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
67-64-1	Acetone	9.0		ug/m <sup>3</sup>	0.65	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.30	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
71-43-2	Benzene	0.79		ug/m <sup>3</sup>	0.44	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.71	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.92	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.4	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.53	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
75-15-0	Carbon disulfide	2.4		ug/m <sup>3</sup>	0.43	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.22	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.63	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.36	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	0.67	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	0.28	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.14	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.62	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.47	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.2	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
75-71-8	Dichlorodifluoromethane	1.5		ug/m <sup>3</sup>	0.68	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	0.99	1.367	EPA TO-15 Certifications:	12/20/2018 08:00	12/20/2018 18:10	RB



### Sample Information

**Client Sample ID:** SV21\_121818

**York Sample ID:** 18L0829-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0829

170502901

Soil Vapor

December 18, 2018 11:35 am

12/20/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	5.1		ug/m <sup>3</sup>	0.59	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.5	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	0.67	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.56	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.49	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	0.95	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
142-82-5	n-Heptane	1.8		ug/m <sup>3</sup>	0.56	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
110-54-3	n-Hexane	1.2		ug/m <sup>3</sup>	0.48	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
95-47-6	o-Xylene	6.2		ug/m <sup>3</sup>	0.59	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
179601-23-1	p- & m- Xylenes	27		ug/m <sup>3</sup>	1.2	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
622-96-8	* p-Ethyltoluene	14		ug/m <sup>3</sup>	0.67	1.367	EPA TO-15 Certifications:	12/20/2018 08:00	12/20/2018 18:10	RB
115-07-1	* Propylene	6.0		ug/m <sup>3</sup>	0.24	1.367	EPA TO-15 Certifications:	12/20/2018 08:00	12/20/2018 18:10	RB
100-42-5	Styrene	0.64		ug/m <sup>3</sup>	0.58	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
127-18-4	Tetrachloroethylene	4.1		ug/m <sup>3</sup>	0.23	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	0.81	1.367	EPA TO-15 Certifications:	12/20/2018 08:00	12/20/2018 18:10	RB
108-88-3	Toluene	10		ug/m <sup>3</sup>	0.52	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.54	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.62	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	0.18	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
75-69-4	Trichlorofluoromethane (Freon 11)	1.0		ug/m <sup>3</sup>	0.77	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.48	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.60	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	12/20/2018 08:00	12/20/2018 18:10	RB



**Sample Information**

**Client Sample ID:** SV21\_121818

**York Sample ID:** 18L0829-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0829

170502901

Soil Vapor

December 18, 2018 11:35 am

12/20/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.087	1.367	EPA TO-15	12/20/2018 08:00	12/20/2018 18:10	RB
							Certifications:	NELAC-NY12058,NJDEP-Queens		
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	98.5 %	70-130							

**Methane**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: PREP for GASES by GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-82-8	* Methane	ND		ug/m <sup>3</sup>	9000	1.37	GC/FID	12/27/2018 12:09	12/27/2018 12:31	RB
							Certifications:			





## Analytical Batch Summary

**Batch ID:** BL80900                      **Preparation Method:** EPA TO15 PREP                      **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
18L0829-01	SV21_121818	12/20/18
BL80900-BLK1	Blank	12/20/18
BL80900-BS1	LCS	12/20/18

**Batch ID:** BL81405                      **Preparation Method:** PREP for GASES by GC                      **Prepared By:** RQB

YORK Sample ID	Client Sample ID	Preparation Date
18L0829-01	SV21_121818	12/27/18
BL81405-BLK1	Blank	12/27/18
BL81405-DUP1	Duplicate	12/27/18



**Volatile Organic Compounds in Air by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BL80900 - EPA TO15 PREP**

**Blank (BL80900-BLK1)**

Prepared & Analyzed: 12/20/2018

1,1,1,2-Tetrachloroethane	ND	0.69	ug/m <sup>3</sup>								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								



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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL80900 - EPA TO15 PREP

Blank (BL80900-BLK1)

Prepared & Analyzed: 12/20/2018

n-Hexane	ND	0.35	ug/m <sup>3</sup>								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.064	"								

Surrogate: SURR: p-Bromofluorobenzene 8.81 ppbv 10.0 88.1 70-130

LCS (BL80900-BS1)

Prepared & Analyzed: 12/20/2018

1,1,1,2-Tetrachloroethane	10.9		ppbv	10.0		109	70-130				
1,1,1-Trichloroethane	10.8		"	10.0		108	70-130				
1,1,2,2-Tetrachloroethane	10.9		"	10.0		109	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6		"	10.0		106	70-130				
1,1,2-Trichloroethane	10.5		"	10.0		105	70-130				
1,1-Dichloroethane	10.6		"	10.0		106	70-130				
1,1-Dichloroethylene	10.1		"	10.0		101	70-130				
1,2,4-Trichlorobenzene	8.86		"	10.0		88.6	70-130				
1,2,4-Trimethylbenzene	11.2		"	10.0		112	70-130				
1,2-Dibromoethane	10.6		"	10.0		106	70-130				
1,2-Dichlorobenzene	11.8		"	10.0		118	70-130				
1,2-Dichloroethane	9.97		"	10.0		99.7	70-130				
1,2-Dichloropropane	10.4		"	10.0		104	70-130				
1,2-Dichlorotetrafluoroethane	10.2		"	10.0		102	70-130				
1,3,5-Trimethylbenzene	11.1		"	10.0		111	70-130				
1,3-Butadiene	9.85		"	10.0		98.5	70-130				
1,3-Dichlorobenzene	11.8		"	10.0		118	70-130				
1,3-Dichloropropane	10.3		"	10.0		103	70-130				
1,4-Dichlorobenzene	11.9		"	10.0		119	70-130				
1,4-Dioxane	10.8		"	10.0		108	70-130				
2-Butanone	10.3		"	10.0		103	70-130				
2-Hexanone	10.9		"	10.0		109	70-130				
3-Chloropropene	10.2		"	10.0		102	70-130				
4-Methyl-2-pentanone	10.8		"	10.0		108	70-130				
Acetone	8.70		"	10.0		87.0	70-130				
Acrylonitrile	9.99		"	10.0		99.9	70-130				
Benzene	10.5		"	10.0		105	70-130				
Benzyl chloride	10.2		"	10.0		102	70-130				
Bromodichloromethane	10.6		"	10.0		106	70-130				
Bromoform	12.3		"	10.0		123	70-130				
Bromomethane	10.4		"	10.0		104	70-130				
Carbon disulfide	10.7		"	10.0		107	70-130				



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

**York Analytical Laboratories, Inc.**

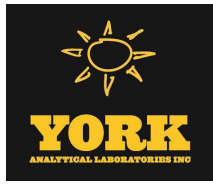
Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result	%REC			Limit			

**Batch BL80900 - EPA TO15 PREP**

**LCS (BL80900-BS1)**

Prepared & Analyzed: 12/20/2018

Carbon tetrachloride	10.6		ppbv	10.0		106	70-130					
Chlorobenzene	10.7		"	10.0		107	70-130					
Chloroethane	10.4		"	10.0		104	70-130					
Chloroform	10.4		"	10.0		104	70-130					
Chloromethane	10.6		"	10.0		106	70-130					
cis-1,2-Dichloroethylene	10.0		"	10.0		100	70-130					
cis-1,3-Dichloropropylene	10.7		"	10.0		107	70-130					
Cyclohexane	10.3		"	10.0		103	70-130					
Dibromochloromethane	11.0		"	10.0		110	70-130					
Dichlorodifluoromethane	11.2		"	10.0		112	70-130					
Ethyl acetate	10.4		"	10.0		104	70-130					
Ethyl Benzene	10.6		"	10.0		106	70-130					
Hexachlorobutadiene	12.3		"	10.0		123	70-130					
Isopropanol	10.2		"	10.0		102	70-130					
Methyl Methacrylate	10.9		"	10.0		109	70-130					
Methyl tert-butyl ether (MTBE)	11.0		"	10.0		110	70-130					
Methylene chloride	10.7		"	10.0		107	70-130					
n-Heptane	10.3		"	10.0		103	70-130					
n-Hexane	10.4		"	10.0		104	70-130					
o-Xylene	11.4		"	10.0		114	70-130					
p- & m- Xylenes	22.3		"	20.0		111	70-130					
p-Ethyltoluene	11.7		"	10.0		117	70-130					
Propylene	9.71		"	10.0		97.1	70-130					
Styrene	11.7		"	10.0		117	70-130					
Tetrachloroethylene	10.0		"	10.0		100	70-130					
Tetrahydrofuran	10.2		"	10.0		102	70-130					
Toluene	10.1		"	10.0		101	70-130					
trans-1,2-Dichloroethylene	10.5		"	10.0		105	70-130					
trans-1,3-Dichloropropylene	10.5		"	10.0		105	70-130					
Trichloroethylene	10.2		"	10.0		102	70-130					
Trichlorofluoromethane (Freon 11)	10.8		"	10.0		108	70-130					
Vinyl acetate	10.5		"	10.0		105	70-130					
Vinyl bromide	10.9		"	10.0		109	70-130					
Vinyl Chloride	9.93		"	10.0		99.3	70-130					
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>10.4</i>		<i>"</i>	<i>10.0</i>		<i>104</i>	<i>70-130</i>					



**Gas Chromatography/Flame Ionization Detector - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BL81405 - PREP for GASES by GC**

**Blank (BL81405-BLK1)**

Prepared & Analyzed: 12/27/2018

Methane ND 6600 ug/m<sup>3</sup>

**Duplicate (BL81405-DUP1)**

\*Source sample: 18L0829-01 (SV21\_121818)

Prepared & Analyzed: 12/27/2018

Methane ND 6600 ug/m<sup>3</sup> ND 20



## 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.





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

# Field Chain-of-Custody Record - AIR

YORK Project No.  
 1810229

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

<b>YOUR INFORMATION</b> Company: <u>LANGEAN Engineering</u> Address: <u>300 W 31st St</u> <u>NEW YORK, NY</u> Phone: <u>212 479 5400</u> Contact: <u>jhw@langean.com</u> E-mail: <u>joan@managementconsultation.com</u>		<b>Report To:</b> Company: Address: Phone: Contact: E-mail:		<b>Invoice To:</b> Company: Address: Phone: Contact: E-mail:		<b>YOUR Project Number</b> <u>170502901</u> <b>YOUR Project Name</b> <u>CSX Parcel</u>		<b>Turn-Around Time</b> <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input checked="" type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard (5-7 Day)	
<b>Air Matrix Codes</b> <input type="checkbox"/> AI - Indoor Ambient Air <input type="checkbox"/> AO - Outdoor Amb. Air <input type="checkbox"/> AE - Vapor Extraction Well/Process Gas/Effluent <input type="checkbox"/> AS - Soil Vapor/Sub-Slab		<b>Samples From</b> <input checked="" type="checkbox"/> New York <input type="checkbox"/> New Jersey <input type="checkbox"/> Connecticut <input type="checkbox"/> Pennsylvania <input type="checkbox"/> Other		<b>Report / EDD Type</b> (circle selections) Summary Report <input type="checkbox"/> CT RCP QA Report <input type="checkbox"/> CT RCP DQA/DUE NY ASP A Package <input type="checkbox"/> NJDEP Reduced Deliv. NY ASP B Package <input type="checkbox"/> NJDKQP Other:		<b>YORK Reg. Comp.</b> Compared to the following Regulation(s): (please fill in)		<b>YORK Reg. Comp.</b> Standard Excel EDD EQUIS (Standard) NYSDEC EQUIS NJDEP SRP HazSite	

Please enter the following REQUIRED Field Data				Reporting Units: ug/m <sup>3</sup> <input checked="" type="checkbox"/> ppbv ___ ppmv ___			
Certified Canisters: Batch	Individual	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
SV21-125818		12/18/18 11:35	AS	-28.75	150	7414	TO-15 VOCs, Methane

**Comments:**

Samples Relinquished by / Company <u>RACANGAN</u>		Samples Relinquished by / Company <u>RACANGAN</u>		Samples Relinquished by / Company Date/Time <u>12/19/18 12:10</u>		Samples Relinquished by / Company Date/Time <u>12-19-18 12:10</u>	
Samples Received by / Company		Samples Received by / Company		Samples Received by / Company		Samples Received in LAB by <u>Joseph York</u> Date/Time <u>12/20/18 10:30 am</u>	