



PHASE II
ENVIRONMENTAL
SITE ASSESSMENT

11-24 Wyckoff Avenue
Borough of Queens
New York City, New York

September 5, 2018

WCD File: PQ18052.20

Environmental & Construction Risk Management

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Prepared By:

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The undersigned has reviewed this Phase II Environmental Site Assessment and certifies to Ben Pomeroy & Helen Pomeroy - Whitlock Group LLC that the information provided in this document is accurate as of the date of issuance by this office.

The undersigned is a Qualified Environmental Professional as defined by 6 NYCRR Part 375-1.2 (ak) and supporting documents. The undersigned possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding the presence of releases or threatened releases to the surface or subsurface of the site or off-site areas, sufficient to meet the objectives and performance factors for the areas of practice identified in NYSDEC guidance document DER-10.

Paul H. Ciminello

September 5, 2018



Qualified Environmental Professional

Date

Signature



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1.0 INTRODUCTION

1.1 Purpose

This Phase II Environmental Site Assessment (Report) documents environmental fieldwork performed by WCD Group (WCD) at the property located at 11-24 Wyckoff Avenue, Borough of Queens, New York City, New York (Site). Investigative and analytical work were performed to address potential environmental liabilities on specified portions of the subject property, which were identified during a previous Phase I investigation (see Section 1.4, below). The specific purpose of this Report is to summarize the work performed by WCD and WCD's subcontractors, and to suggest, if appropriate, further investigative and/or remedial options regarding identified on-site conditions.

This Report describes all fieldwork methodologies for the work conducted by WCD, includes discussions of the resulting analytical data from collected samples and provides conclusions and recommendations drawn from the fieldwork and analytical data.

1.2 Limitations

This written analysis summarizes the site characterization activities conducted on a specified portion of the above-referenced property and is not relevant to other portions of this property or any other property. It is a representation of those portions of the property analyzed as of the respective dates of fieldwork. This Report cannot be held accountable for activities or events resulting in contamination after the dates of fieldwork.

Services summarized in this Report were performed in accordance with generally accepted practices and established New York State Department of Environmental Conservation (NYSDEC) protocols. Unless specifically noted, the findings and conclusions contained herein must be considered not as scientific certainties, but as probabilities based on professional judgement.

1.3 Site Location and Description

The property is a 0.34-acre parcel located on the southern side of Wyckoff Avenue, occupied by a vacant, high one-story commercial building. [Note: For clarity of presentation, Wyckoff Avenue, which has an actual northwest/southeast orientation, is described in this Report as having an east/west orientation, and all other road and property descriptions have been likewise appropriately adjusted for descriptive purposes. All report maps indicate approximate true north.] An asphalt parking/loading area is located at the northern-central portion of the property. A Fieldwork Map indicating specific Site characteristics is provided in Appendix A.

1.4 Previous Environmental Reports

A Phase I Environmental Site Assessment (Phase I ESA) performed on the property by WCD in July 2018 identified an on-site, 2,000-gallon fuel-oil underground storage tank (UST) of unknown

integrity, and historical on- and off-site commercial/industrial uses (including former on-site uses as a garage and a knitting mill and a former filling station at an eastern adjoining property) as potential sources of contamination.

2.0 SUBSURFACE INVESTIGATION

2.1 Summary of Services

WCD extended five soil borings and installed four temporary soil vapor implants the Site and collected soil and soil vapor samples to document the presence or absence of contamination. This Report is divided into individual sections that document fieldwork methodology (Section 2.2) and laboratory results (Section 2.3), and present WCD's conclusions and recommendations (Section 3.0). A map indicating fieldwork locations and Site features is provided in Appendix A.

2.2 Fieldwork Activities

2.2.1 Site Preparation Services

WCD requested a complete utility markout (as required by New York State Department of Labor regulations) and on-site personnel reviewed the markout and underground utility locations prior to the initiation of fieldwork.

2.2.2 Fieldwork Methodology

General Protocols

All encountered material was screened with a properly calibrated RKI Instruments GX-6000 photo-ionization detector (PID) for the presence of any volatile organic vapors where appropriate. WCD described all encountered media in field log books, including specific characteristics, the presence of foreign materials, and field and instrument indications of contamination (e.g., staining, odors, PID readings). Soil boring logs are provided in Appendix B.

WCD collected samples in general conformance with NYSDEC and NYSDOH fieldwork protocols. All field personnel wore dedicated, disposable gloves during relevant fieldwork activities, and any non-dedicated sampling instruments were decontaminated prior to media collection.

All samples were collected into appropriately-sized containers provided by the laboratory (with preservatives as required for the specific analysis), and were maintained at proper temperatures (using ice-packs and coolers as needed) while in WCD's custody. Samples were transported via courier to York Analytical Laboratories, Inc., a New York State Department of Health-certified laboratory (ELAP Certification Number 10854) for chemical analyses. Appropriate chain-of-custody procedures were followed.

Extension of Soil Borings

Five mechanized soil borings were extended on August 21 and 23, 2018 at the central portion of the building to the east (SB-01) and northwest (SB-02) of the UST, at the eastern portion of the building near the eastern property border (SB-03 and SB-04), and at the western portion of the building (SB-05).

All soil borings were extended by personnel from Core Down Drilling using a track-mounted Geoprobe direct-push corer equipped with disposable acetate sleeves (used to prevent the cross contamination of soil samples). Soil was recovered at each boring location at intervals of 4 or 5 feet to a maximum depth of 20 feet below surface grade (bsg) at borings SB-01 and SB-02 and until refusal was reached at all remaining borings (between 7 and 12' bsg).

Subsurface soils encountered at the Site during the extension of the soil borings generally consisted of variable-texture fill materials (unsorted sands with gravel and minimal building debris to depths ranging from 2-6' bsg) overlying likely native, brown sands with trace rocks.

No field evidence of contamination was observed at any boring location. Groundwater was not encountered during the extension of the soil borings.

Soil samples were collected directly from the acetate sleeves, utilizing clean, disposable equipment. Soil collection for VOC analysis was conducted according to USEPA Method 5035 fieldwork protocols, utilizing laboratory sampling kits.

Collection of Soil Vapor

Four soil vapor samples (SV-01 through SV-04) were collected from beneath the on-site building on August 21, 2018. SV-01 was collected from the western portion, SV-02 was collected from the eastern portion, SV-03 was collected from beneath the partial basement at the southeastern corner, and SV-04 was collected from the southern-central portion near the UST.

At each location, the slab was breached utilizing a concrete drill and the holes were extended to a depth of 16 inches below the top of the slab. The end of the sample stubbing (0.188-inch inner diameter Teflon) was attached to an "air stone" filter and inserted through the borehole. Clean sand was poured into the void surrounding the air stone. The holes were backfilled leaving approximately two inches of depth between the top of the sand and the ground/slab surface. The remaining space at the top of each hole was sealed off with bentonite to prevent surface air from entering the system. A properly calibrated PID was used to measure volatile organics before purging. PID readings at all four boreholes were less than 1 part per million (ppm, equivalent to milligrams per kilogram). A vacuum pump was utilized to purge the standing air from the tubing. At least three borehole and tubing volumes were purged prior to sample collection at a rate of 0.2 liters per minute. Following purging, the vapor samples were collected over a two-hour period using 6-liter stainless steel, laboratory supplied Summa canisters with two-hour calibrated flow controllers.

2.3 Laboratory Analysis

2.3.1 Standards, Criteria and/or Guidance

Soil

Laboratory results for organic compounds detected in soils are compared to NYSDEC Remedial Program Soil Cleanup Objectives (SCOs) for Unrestricted Use (UU) as provided in 6 NYCRR Subpart 375, Table 375-6.8(a), and (as needed) Soil Cleanup Levels (for gasoline and fuel oil contaminated Soils) presented in NYSDEC CP-51 (Soil Cleanup Guidance, October 2010) Tables 2 through 3.

Vapor

The State of New York does not have any standards, criteria or guidance values (SCG) for volatile chemicals in subsurface vapors; the NYSDOH does, however, utilize several decision matrices for evaluating potential soil vapor intrusion for a limited number of compounds under specific circumstances (see NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York [October 2006]). Potentially applicable matrix values and/or relatively high concentrations of VOCs are identified in the report text and in data summary tables, as warranted.

2.3.2 Sample Submission

Submission of samples for laboratory analysis was based on observations made by WCD personnel during the extension of the soil borings, including the presence or absence of elevated PID readings, unusual odors, discoloration, or, any other unusual patterns. Samples were collected from borings SB-01 and SB-02 from the 13-15' interval (beneath the likely invert of the 2,000-gallon UST). Samples from all remaining borings were collected from the bottom 2' interval of the boring (5-7' at SB-03 and SB-04 and 9.5-11.5' at SB-05).

Soil samples were analyzed for volatile organic compounds (VOCs) using USEPA Method 8260, and polycyclic aromatic hydrocarbons (PAHs) using USEPA Method 8270.

Soil vapor samples were analyzed for VOCs using USEPA Method TO-15.

2.3.3 Laboratory Results

A summary of the results of the laboratory analyses is presented below. Results are referenced as parts per million (ppm, equivalent to milligrams per kilogram) for soil and micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) for soil vapor. Data summary tables and the laboratory reports are provided as Appendices C and D, respectively.

Soil

VOCs

No VOCs were detected in any of the soil samples.

PAHs

No PAHs were detected above SCOs. Trace- to low-level concentrations of several PAHs were detected in SB-03 5-7 and SB-04 5-7.

SOIL VAPOR

Relatively elevated concentrations of tetrachloroethene (PCE; a dry cleaning solvent) were detected in SV-03 (2,700 $\mu\text{g}/\text{m}^3$) and SV-04 (1,700 $\mu\text{g}/\text{m}^3$). A relatively elevated concentration of 1,1,1-trichloroethane (1,1,1-TCA; an industrial solvent) was also detected at SV-04 (620 $\mu\text{g}/\text{m}^3$). Low-level concentrations of numerous other VOCs typically encountered in urban settings were detected in all samples.

3.0 CONCLUSIONS AND RECOMMENDATIONS

This office has completed the services summarized in Section 2.0 on specified portions of the property located at 11-24 Wyckoff Avenue, Borough of Queens, New York City, New York. Services included the extension of five soil borings, installation of four temporary soil vapor implants, and collection of soil and soil vapor samples to document the presence or absence of contamination resulting from an on-site underground storage tank (UST) of unknown integrity and from historical on- and off-site historical commercial/industrial uses.

Based on the services provided and data generated, the following conclusions and recommendations (in **bold**) have been made.

1. No field evidence of petroleum contamination was encountered in two soil borings extended in the vicinity of the on-site 2,000-gallon fuel-oil UST and laboratory data document an absence of volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs). These findings support the conclusion that no significant releases have occurred in the vicinity of the UST.

No further investigation is recommended. The UST should be removed or closed-in-place in accordance with applicable regulations.

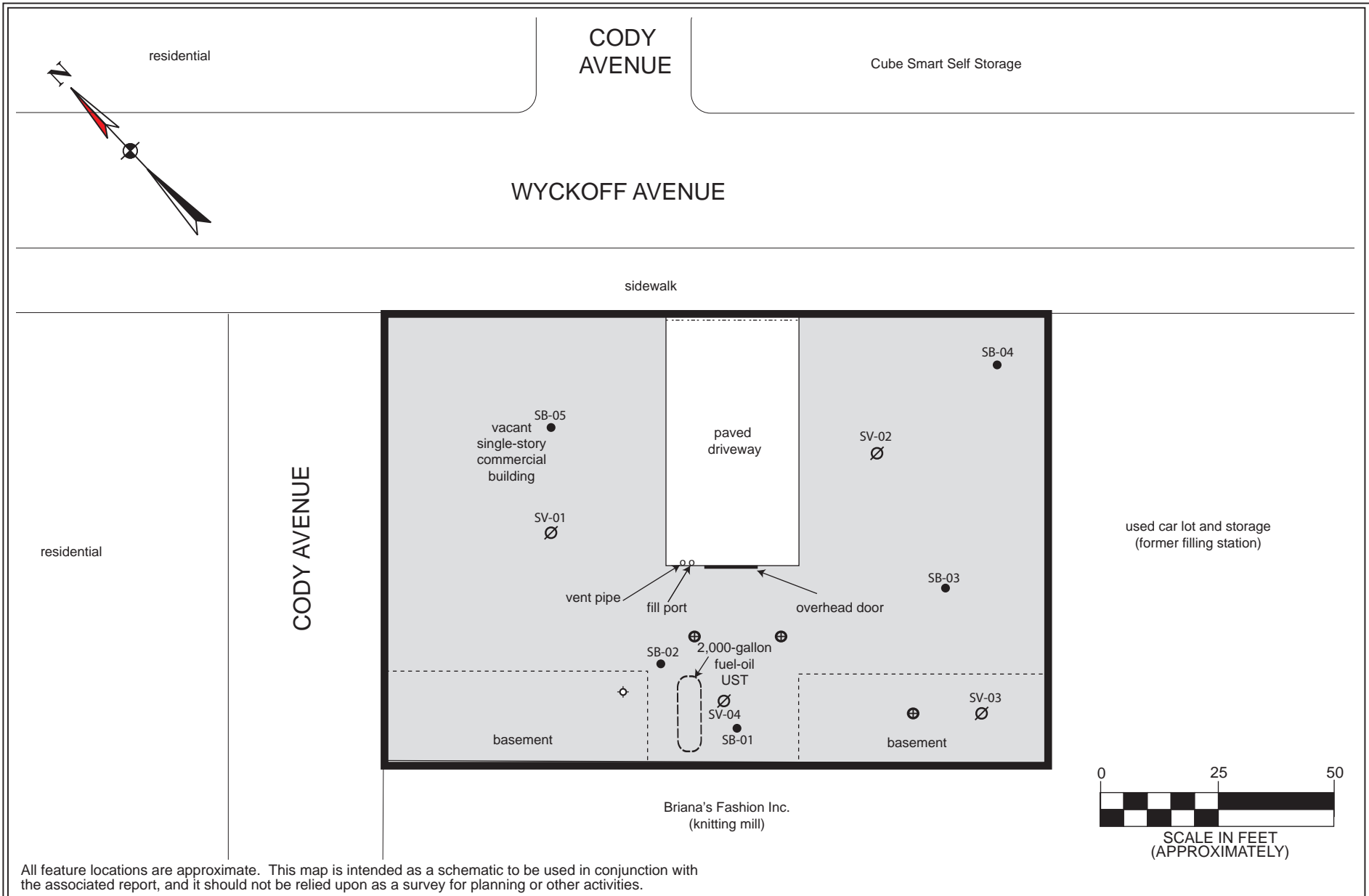
2. Relatively elevated concentrations of the solvents tetrachloroethene (PCE) and 1,1,1-trichloroethane (1,1,1-TCA) were detected in soil vapor samples beneath the southeastern and southern-central portions of the property. These compounds were not detected in any of the soil samples collected beneath the building. The likely source of these compounds is unknown and cannot be determined based on current data.

The following actions are recommended:

- **Additional subsurface investigation should be conducted to further investigate the likely source of PCE and 1,1,1-TCA in on-site soil vapor.**
- **In the event of future occupancy of the building, installation of a sub-slab depressurization system (SSDS) is recommended to prevent vapor intrusion into interior spaces.**

APPENDIX A

Fieldwork Map



All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

Fieldwork Map
11-24 Wyckoff Avenue
Borough of Queens, New York

- Legend:
- subject property border
 - chain link fence
 - sump
 - floor drain
 - boring locations
 - soil vapor locations

WCD File: PQ18052.20

September 2018

Scale as shown

Attachment

APPENDIX B

Boring Logs

Soil Boring Log



SB-01 (SHEET 1 OF 1)		Phase II Environmental Site Assessment 11-24 Wyckoff Avenue, Queens, New York						WCD FILE PQ18052.20	
		DATE: 2018-08-21 DRILLER (RIG) Core Down Drilling (7822DT Geoprobe, 5' macrocore) WCD STAFF: T. Goodnough WEATHER: Sunny, 85°F							
BORING INTERVAL (RECOVERY)	SURFACE MATERIAL: CONCRETE + GRAVEL (6-8")	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED		
	SOIL / MATERIAL DESCRIPTION								
0 – 5' (40%)	White/tan, M-C SAND	Dry	0.0	ND	ND	ND			
	Dark brown/orange, M-F SAND with trace gravel	Dry	0.0	ND	ND	ND			
5 – 10' (25%)	Gray/brown, M-F SAND with trace gravel	Dry	0.0	ND	ND	ND			
10 – 15' (60%)	Brown, M-F SAND with trace rock at ~14'	Dry	0.0	Faint	ND	ND	13-15		
15 – 20' (50%)	Brown, M-F SAND with trace rock ***** End of Boring at 20' *****	Dry	0.0	ND	ND	ND			
Notes	Fill Materials Potential fill from ~0 - 7' Field Evidence of Contamination Not encountered Saturated Soils Not encountered								

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
F (fine) **M** (medium) **C** (coarse) **P** (plastic) **LP** (low plastic) **NP** (non-plastic)

Soil Boring Log



SB-02 (SHEET 1 OF 1)		Phase II Environmental Site Assessment 11-24 Wyckoff Avenue, Queens, New York						WCD FILE PQ18052.20	
		DATE: 2018-08-21 DRILLER (RIG) Core Down Drilling (7822DT Geoprobe, 5' macrocore) WCD STAFF: T. Goodnough WEATHER: Sunny, 85°F							
BORING INTERVAL (RECOVERY)	SURFACE MATERIAL: CONCRETE + GRAVEL (6-8")	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED		
	SOIL / MATERIAL DESCRIPTION								
0 – 5' (50%)	Dark brown/orange, M-F SAND with patches of SILT and trace rock and gravel	Dry	0.0	ND	ND	ND			
5 – 10' (50%)	Brown/orange, M-F SAND with trace rock and gravel	Dry	0.0	ND	ND	ND			
10 – 15' (75%)	Brown, M-F SAND	Dry	0.0	ND	ND	ND	13-15		
15 – 20' (40%)	Brown, M-F SAND becoming more C SAND at ~20' ***** End of Boring at 20' *****	Dry	0.0	ND	ND	ND			
Notes	Fill Materials Potential fill from ~0 - 5' Field Evidence of Contamination Not encountered Saturated Soils Not encountered								

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
F (fine) **M** (medium) **C** (coarse) **P** (plastic) **LP** (low plastic) **NP** (non-plastic)

Soil Boring Log



SB-03 (SHEET 1 OF 1)		Phase II Environmental Site Assessment 11-24 Wyckoff Avenue, Queens, New York						WCD FILE PQ18052.20	
		DATE: 2018-08-23 DRILLER (RIG) Core Down Drilling (Geoprobe, 4' macrocore) WCD STAFF: B. Silveri WEATHER: Sunny, 85°F							
BORING INTERVAL (RECOVERY)	SURFACE MATERIAL: PLYWOOD + CONCRETE (1')	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED		
	SOIL / MATERIAL DESCRIPTION								
0 – 4' (50%)	Brown/gray, M-F SAND with trace rock	Dry	0.0	ND	ND	ND			
	Light gray/brown, M-F SAND with trace rock	Dry	0.0	ND	ND	ND			
4 – 8' (50%)	Brown, M-F SAND with trace rock ***** End of Boring at 7' - Refusal *****	Dry	0.0	ND	ND	ND	5-7		
Notes Fill Materials Potential fill from ~0 - 2' Field Evidence of Contamination Not encountered Saturated Soils Not encountered Field Notes Two other attempts made in vicinity – shallow refusal at each location (~2-3')									

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
F (fine) **M** (medium) **C** (coarse) **P** (plastic) **LP** (low plastic) **NP** (non-plastic)

Soil Boring Log



SB-04 (SHEET 1 OF 1)		Phase II Environmental Site Assessment 11-24 Wyckoff Avenue, Queens, New York						WCD FILE PQ18052.20
		DATE: 2018-08-23 DRILLER (RIG) Core Down Drilling (Geoprobe, 4' macrocore) WCD STAFF: B. Silveri WEATHER: Sunny, 85°F						
BORING INTERVAL (RECOVERY)	SURFACE MATERIAL: PLYWOOD + CONCRETE (6") SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED	
0 – 4' (40%)	Brown, variable texture SAND with brick and stone	Dry	0.0	ND	ND	ND		
	Brown, M-F SAND with trace gravel	Dry	0.0	ND	ND	ND		
4 – 8' (40%)	Brown, M-F SAND with trace gravel ***** End of Boring at 7' – Refusal*****	Dry	0.0	ND	ND	ND	5-7	
Notes Fill Materials Potential fill from ~0 - 5' Field Evidence of Contamination Not encountered Saturated Soils Not encountered								

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
F (fine) **M** (medium) **C** (coarse) **P** (plastic) **LP** (low plastic) **NP** (non-plastic)

Soil Boring Log



SB-05 (SHEET 1 OF 1)		Phase II Environmental Site Assessment 11-24 Wyckoff Avenue, Queens, New York						WCD FILE PQ18052.20
		DATE: 2018-08-23 DRILLER (RIG) Core Down Drilling (Geoprobe, 4' macrocore) WCD STAFF: B. Silveri WEATHER: Sunny, 85°F						
BORING INTERVAL (RECOVERY)	SURFACE MATERIAL: PLYWOOD + CONCRETE (6")	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED	
	SOIL / MATERIAL DESCRIPTION							
0 – 4' (30%)	Gray/brown, variable texture SAND with trace rock	Dry	0.0	ND	ND	ND		
4 – 8' (40%)	Gray/brown, variable texture SAND with trace rock	Dry	0.0	ND	ND	ND		
	Brown, M-F SAND with trace rock	Dry	0.0	ND	ND	ND		
8 – 12' (25%)	Brown, M-F SAND ***** End of Boring at 11.5' – Refusal *****	Dry	0.0	ND	ND	ND	9.5-11.5	
Notes	Fill Materials Potential fill materials from ~0 - 6' Field Evidence of Contamination Not encountered Saturated Soils Not encountered Field Notes One other attempt made in vicinity – shallow refusal at (~3') with apparent coal cinders in bottom of sleeve							

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
F (fine) **M** (medium) **C** (coarse) **P** (plastic) **LP** (low plastic) **NP** (non-plastic)

APPENDIX C

Data Summary Tables

Table 1: VOCs in Soils
WCD File: PQ18052.20



All data in mg/Kg (ppm) U= Not Detected ≥ indicated value Data above SCOs shown in Bold	Sample ID	SB-01 13-15		SB-02 13-15		SB-03 5-7		SB-04 5-7	
	Sample Date	(2018-08-21)		(2018-08-21)		(2018-08-23)		(2018-08-23)	
	Dilution Factor	1		1		1		1	
VOCs, 8260	UUSCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,1,1-Trichloroethane	0.68	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,1,2,2-Tetrachloroethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,1,2-Trichloroethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,1-Dichloroethane	0.27	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,1-Dichloroethylene (1,1-DCE)	0.33	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2,3-Trichlorobenzene	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2,3-Trichloropropane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2,4-Trichlorobenzene	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2,4-Trimethylbenzene	3.6	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2-Dibromo-3-chloropropane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2-Dibromoethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2-Dichlorobenzene	1.1	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2-Dichloroethane	0.02	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2-Dichloropropane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,3,5-Trimethylbenzene	8.4	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,3-Dichlorobenzene	2.4	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,4-Dichlorobenzene	1.8	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,4-Dioxane	0.1	0.05	U	0.049	U	0.065	U	0.057	U
2-Butanone (MEK)	0.12	0.0025	U	0.0024	U	0.0033	U	0.0029	U
2-Hexanone	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
4-Methyl-2-pentanone	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Acetone	0.05	0.005	U	0.0049	U	0.0065	U	0.0057	U
Acrolein	NA	0.005	U	0.0049	U	0.0065	U	0.0057	U
Acrylonitrile	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Benzene	0.06	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Bromochloromethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Bromodichloromethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Bromoform	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Bromomethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Carbon disulfide	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Carbon tetrachloride	0.76	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Chlorobenzene	1.1	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Chloroethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Chloroform	0.37	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Chloromethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
cis-1,2-Dichloroethylene (cis-DCE)	0.25	0.0025	U	0.0024	U	0.0033	U	0.0029	U
cis-1,3-Dichloropropylene	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Cyclohexane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Dibromochloromethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Dibromomethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Dichlorodifluoromethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Ethyl Benzene	1	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Hexachlorobutadiene	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Isopropylbenzene	2.3	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Methyl acetate	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Methyl tert-butyl ether (MTBE)	0.93	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Methylcyclohexane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Methylene chloride	0.05	0.005	U	0.0049	U	0.0065	U	0.0057	U
n-Butylbenzene	12	0.0025	U	0.0024	U	0.0033	U	0.0029	U
n-Propylbenzene	3.9	0.0025	U	0.0024	U	0.0033	U	0.0029	U
o-Xylene	0.26	0.0025	U	0.0024	U	0.0033	U	0.0029	U
p- & m- Xylenes	0.26	0.005	U	0.0049	U	0.0065	U	0.0057	U
p-Isopropyltoluene	10	0.0025	U	0.0024	U	0.0033	U	0.0029	U
sec-Butylbenzene	11	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Styrene	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
tert-Butyl alcohol (TBA)	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
tert-Butylbenzene	5.9	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Tetrachloroethylene (PCE)	1.3	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Toluene	0.7	0.0025	U	0.0024	U	0.0033	U	0.0029	U
trans-1,2-Dichloroethylene (trans-DCE)	0.19	0.0025	U	0.0024	U	0.0033	U	0.0029	U
trans-1,3-Dichloropropylene	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Trichloroethylene (TCE)	0.47	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Trichlorofluoromethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Vinyl chloride (VC)	0.02	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Xylenes, Total	0.26	0.0076	U	0.0073	U	0.0098	U	0.0086	U

Analyte Detected

Analyte Above UUSCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 1: VOCs in Soils

WCD File: PQ18052.20



All data in mg/Kg (ppm) U= Not Detected ≥ indicated value Data above SCOs shown in Bold	Sample ID	SB-05 9.5-11.5	
	Sample Date	(2018-08-23)	
	Dilution Factor	1	
VOCs, 8260	UUSCO	Result	Qualifier
1,1,1,2-Tetrachloroethane	NA	0.0026	U
1,1,1-Trichloroethane	0.68	0.0026	U
1,1,2,2-Tetrachloroethane	NA	0.0026	U
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	0.0026	U
1,1,2-Trichloroethane	NA	0.0026	U
1,1-Dichloroethane	0.27	0.0026	U
1,1-Dichloroethylene (1,1-DCE)	0.33	0.0026	U
1,2,3-Trichlorobenzene	NA	0.0026	U
1,2,3-Trichloropropane	NA	0.0026	U
1,2,4-Trichlorobenzene	NA	0.0026	U
1,2,4-Trimethylbenzene	3.6	0.0026	U
1,2-Dibromo-3-chloropropane	NA	0.0026	U
1,2-Dibromoethane	NA	0.0026	U
1,2-Dichlorobenzene	1.1	0.0026	U
1,2-Dichloroethane	0.02	0.0026	U
1,2-Dichloropropane	NA	0.0026	U
1,3,5-Trimethylbenzene	8.4	0.0026	U
1,3-Dichlorobenzene	2.4	0.0026	U
1,4-Dichlorobenzene	1.8	0.0026	U
1,4-Dioxane	0.1	0.053	U
2-Butanone (MEK)	0.12	0.0026	U
2-Hexanone	NA	0.0026	U
4-Methyl-2-pentanone	NA	0.0026	U
Acetone	0.05	0.0053	U
Acrolein	NA	0.0053	U
Acrylonitrile	NA	0.0026	U
Benzene	0.06	0.0026	U
Bromochloromethane	NA	0.0026	U
Bromodichloromethane	NA	0.0026	U
Bromoform	NA	0.0026	U
Bromomethane	NA	0.0026	U
Carbon disulfide	NA	0.0026	U
Carbon tetrachloride	0.76	0.0026	U
Chlorobenzene	1.1	0.0026	U
Chloroethane	NA	0.0026	U
Chloroform	0.37	0.0026	U
Chloromethane	NA	0.0026	U
cis-1,2-Dichloroethylene (cis-DCE)	0.25	0.0026	U
cis-1,3-Dichloropropylene	NA	0.0026	U
Cyclohexane	NA	0.0026	U
Dibromochloromethane	NA	0.0026	U
Dibromomethane	NA	0.0026	U
Dichlorodifluoromethane	NA	0.0026	U
Ethyl Benzene	1	0.0026	U
Hexachlorobutadiene	NA	0.0026	U
Isopropylbenzene	2.3	0.0026	U
Methyl acetate	NA	0.0026	U
Methyl tert-butyl ether (MTBE)	0.93	0.0026	U
Methylcyclohexane	NA	0.0026	U
Methylene chloride	0.05	0.0053	U
n-Butylbenzene	12	0.0026	U
n-Propylbenzene	3.9	0.0026	U
o-Xylene	0.26	0.0026	U
p- & m- Xylenes	0.26	0.0053	U
p-Isopropyltoluene	10	0.0026	U
sec-Butylbenzene	11	0.0026	U
Styrene	NA	0.0026	U
tert-Butyl alcohol (TBA)	NA	0.0026	U
tert-Butylbenzene	5.9	0.0026	U
Tetrachloroethylene (PCE)	1.3	0.0026	U
Toluene	0.7	0.0026	U
trans-1,2-Dichloroethylene (trans-DCE)	0.19	0.0026	U
trans-1,3-Dichloropropylene	NA	0.0026	U
Trichloroethylene (TCE)	0.47	0.0026	U
Trichlorofluoromethane	NA	0.0026	U
Vinyl chloride (VC)	0.02	0.0026	U
Xylenes, Total	0.26	0.0079	U

Analyte Detected

Analyte Above UUSCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 2: PAHs in Soils

WCD File: PQ18052.20



<i>All data in mg/Kg (ppm)</i>		SB-01 13-15		SB-02 13-15		SB-03 5-7	
<i>U= Not Detected ≥ indicated value</i>		(2018-08-21)		(2018-08-21)		(2018-08-23)	
<i>Data above SCOs shown in Bold</i>		2		2		2	
SVOCs, 8270	UUSCO	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>
2-Methylnaphthalene	NA	0.0432	U	0.0431	U	0.0501	U
Acenaphthene	20	0.0432	U	0.0431	U	0.0501	U
Acenaphthylene	100	0.0432	U	0.0431	U	0.0501	U
Anthracene	100	0.0432	U	0.0431	U	0.0501	U
Benzo(a)anthracene	1	0.0432	U	0.0431	U	0.0856	JD
Benzo(a)pyrene	1	0.0432	U	0.0431	U	0.122	D
Benzo(b)fluoranthene	1	0.0432	U	0.0431	U	0.12	D
Benzo(g,h,i)perylene	100	0.0432	U	0.0431	U	0.0776	JD
Benzo(k)fluoranthene	0.8	0.0432	U	0.0431	U	0.114	D
Chrysene	1	0.0432	U	0.0431	U	0.136	D
Dibenzo(a,h)anthracene	0.33	0.0432	U	0.0431	U	0.0501	U
Fluoranthene	100	0.0432	U	0.0431	U	0.314	D
Fluorene	30	0.0432	U	0.0431	U	0.0501	U
Indeno(1,2,3-cd)pyrene	0.5	0.0432	U	0.0431	U	0.0656	JD
Naphthalene	12	0.0432	U	0.0431	U	0.0501	U
Phenanthrene	100	0.0432	U	0.0431	U	0.192	D
Pyrene	100	0.0432	U	0.0431	U	0.228	D

Analyte Detected

Analyte Above UUSCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 2: PAHs in Soils

WCD File: PQ18052.20



<i>All data in mg/Kg (ppm)</i>		SB-04 5-7		SB-05 9.5-11.5	
<i>U= Not Detected ≥ indicated value</i>		(2018-08-23)		(2018-08-23)	
<i>Data above SCOs shown in Bold</i>		2		2	
SVOCs, 8270	UUSCO	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>
2-Methylnaphthalene	NA	0.0458	<i>U</i>	0.0432	<i>U</i>
Acenaphthene	20	0.0458	<i>U</i>	0.0432	<i>U</i>
Acenaphthylene	100	0.0458	<i>U</i>	0.0432	<i>U</i>
Anthracene	100	0.0461	<i>JD</i>	0.0432	<i>U</i>
Benzo(a)anthracene	1	0.284	<i>D</i>	0.0432	<i>U</i>
Benzo(a)pyrene	1	0.316	<i>D</i>	0.0432	<i>U</i>
Benzo(b)fluoranthene	1	0.306	<i>D</i>	0.0432	<i>U</i>
Benzo(g,h,i)perylene	100	0.193	<i>D</i>	0.0432	<i>U</i>
Benzo(k)fluoranthene	0.8	0.274	<i>D</i>	0.0432	<i>U</i>
Chrysene	1	0.279	<i>D</i>	0.0432	<i>U</i>
Dibenzo(a,h)anthracene	0.33	0.057	<i>JD</i>	0.0432	<i>U</i>
Fluoranthene	100	0.455	<i>D</i>	0.0432	<i>U</i>
Fluorene	30	0.0458	<i>U</i>	0.0432	<i>U</i>
Indeno(1,2,3-cd)pyrene	0.5	0.2	<i>D</i>	0.0432	<i>U</i>
Naphthalene	12	0.0458	<i>U</i>	0.0432	<i>U</i>
Phenanthrene	100	0.224	<i>D</i>	0.0432	<i>U</i>
Pyrene	100	0.393	<i>D</i>	0.0432	<i>U</i>

Analyte Detected

Analyte Above UUSCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 3: VOCs in Soil Vapor
WCD File: PQ18052.20



All data in µg/m ³ U= Not Detected ≥ value	Sample ID	SV-01		SV-02		SV-03		SV-04		
	Sample Date	(2018-08-21)		(2018-08-21)		(2018-08-21)		(2018-08-21)		
	Dilution Factor	1.383		14.06		13.58		27.34		
VOCs, TO-15										
	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane	0.95	U	0.97	U	0.93	U	0.94	U	0.94	U
1,1,1-Trichloroethane	4.7	D	0.77	U	27	D	620	D	620	D
1,1,2,2-Tetrachloroethane	0.95	U	0.97	U	0.93	U	0.94	U	0.94	U
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	1.1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	0.76	U	0.77	U	0.74	U	0.75	U	0.75	U
1,1-Dichloroethane	0.56	U	0.57	U	0.55	U	7.8	D	7.8	D
1,1-Dichloroethene	0.55	U	0.56	U	0.54	U	0.54	U	0.54	U
1,2,4-Trichlorobenzene	1	U	1	U	1	U	1	U	1	U
1,2,4-Trimethylbenzene	29	D	110	D	20	D	17	D	17	D
1,2-Dibromoethane	1.1	U	1.1	U	1	U	1.1	U	1.1	U
1,2-Dichlorobenzene	0.83	U	0.85	U	0.82	U	0.82	U	0.82	U
1,2-Dichloroethane	0.56	U	0.57	U	0.55	U	0.55	U	0.55	U
1,2-Dichloropropane	0.64	U	0.65	U	0.63	U	0.63	U	0.63	U
1,2-Dichlorotetrafluoroethane	0.97	U	0.98	U	0.95	U	0.96	U	0.96	U
1,3,5-Trimethylbenzene	8.9	D	28	D	4.9	D	3.7	D	3.7	D
1,3-Butadiene	2	D	0.93	U	0.9	U	0.91	U	0.91	U
1,3-Dichlorobenzene	0.83	U	0.85	U	0.82	U	0.82	U	0.82	U
1,3-Dichloropropane	0.64	U	0.65	U	0.63	U	0.63	U	0.63	U
1,4-Dichlorobenzene	0.83	U	0.85	U	0.82	U	0.82	U	0.82	U
1,4-Dioxane	1	U	1	U	0.98	U	0.99	U	0.99	U
2-Butanone	28	D	73	D	6.1	D	3.7	D	3.7	D
2-Hexanone	3	D	8.8	D	1.1	U	1.1	U	1.1	U
3-Chloropropene	2.2	U	2.2	U	2.1	U	2.1	U	2.1	U
4-Methyl-2-pentanone	5.5	D	9.6	D	0.56	U	0.56	U	0.56	U
Acetone	160	D	370	D	32	D	18	D	18	D
Acrylonitrile	0.3	U	0.31	U	0.29	U	0.3	U	0.3	U
Benzene	11	D	6.7	D	9.2	D	6.7	D	6.7	D
Benzyl chloride	0.72	U	0.73	U	0.7	U	0.71	U	0.71	U
Bromodichloromethane	0.93	U	0.94	U	0.91	U	0.92	U	0.92	U
Bromoform	1.4	U	1.5	U	1.4	U	1.4	U	1.4	U
Bromomethane	0.54	U	0.55	U	0.53	U	0.53	U	0.53	U
Carbon disulfide	3.5	D	0.44	U	0.42	U	0.43	U	0.43	U
Carbon tetrachloride	0.22	U	0.22	U	0.21	U	0.22	U	0.22	U
Chlorobenzene	0.64	U	0.65	U	0.63	U	0.63	U	0.63	U
Chloroethane	0.37	U	0.37	U	0.36	U	0.36	U	0.36	U
Chloroform	0.68	U	0.69	U	35	D	86	D	86	D
Chloromethane	3.1	D	10	D	0.28	U	0.28	U	0.28	U
cis-1,2-Dichloroethene	0.55	U	0.56	U	0.54	U	0.54	U	0.54	U
cis-1,3-Dichloropropene	0.63	U	0.64	U	0.62	U	0.62	U	0.62	U
Cyclohexane	14	D	51	D	6.9	D	0.47	U	0.47	U
Dibromochloromethane	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
Dichlorodifluoromethane	0.69	U	0.7	U	0.67	U	0.68	U	0.68	U
Ethyl Acetate	3.9	D	5.6	D	0.98	U	0.99	U	0.99	U
Ethylbenzene	30	D	25	D	24	D	19	D	19	D
Hexachlorobutadiene	1.5	U	1.5	U	1.4	U	1.5	U	1.5	U
Isopropanol	4.7	D	17	D	3.1	D	3.9	D	3.9	D
Methyl Methacrylate	0.57	U	0.58	U	0.56	U	0.56	U	0.56	U
Methyl tert butyl ether	0.5	U	0.51	U	0.49	U	0.49	U	0.49	U
Methylene chloride	4.8	D	4.8	D	0.94	U	0.95	U	0.95	U
Naphthalene	9.4	D	9.8	D	8.9	D	7.3	D	7.3	D
n-Heptane	13	D	40	D	12	D	12	D	12	D
n-Hexane	6.6	D	6	D	4.5	D	6.6	D	6.6	D
o-Xylene	31	D	35	D	22	D	18	D	18	D
p/m-Xylene	90	D	91	D	67	D	53	D	53	D
p-Ethyltoluene	31	D	100	D	19	D	16	D	16	D
Propylene	11	D	11	D	2.9	D	2.4	D	2.4	D
Styrene	4.5	D	6.5	D	3.6	D	0.58	U	0.58	U
Tetrachloroethene	8.4	D	7.4	D	2,700	D	1,700	D	1,700	D
Tetrahydrofuran	20	D	30	D	5	D	4.4	D	4.4	D
Toluene	110	D	74	D	90	D	68	D	68	D
trans-1,2-Dichloroethene	0.55	U	0.56	U	0.54	U	0.54	U	0.54	U
trans-1,3-Dichloropropene	0.63	U	0.64	U	0.62	U	0.62	U	0.62	U
Trichloroethene	0.19	U	0.19	U	10	D	5.3	D	5.3	D
Trichlorofluoromethane	0.78	U	0.79	U	4.9	D	0.77	U	0.77	U
Vinyl acetate	0.49	U	0.5	U	0.48	U	0.48	U	0.48	U
Vinyl bromide	0.61	U	0.62	U	0.59	U	0.6	U	0.6	U
Vinyl chloride	0.35	U	0.36	U	0.35	U	0.35	U	0.35	U

Detected concentrations
 Relatively elevated concentrations

Notes: NA = not available
 Result Qualifiers: J = approximate E = estimated B = detected in blank

APPENDIX D

Laboratory Reports



Technical Report

prepared for:

WCD Group - Poughkeepsie NY
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Tyler Goodnough

Report Date: 08/27/2018
Client Project ID: PQ18052
York Project (SDG) No.: 18H0990

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 08/27/2018
Client Project ID: PQ18052
York Project (SDG) No.: 18H0990

WCD Group - Poughkeepsie NY
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Tyler Goodnough

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 August 21, 2018 and listed below. The project was identified as your project: **PQ18052**.

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>
18H0990-01	SV-01	Soil Vapor	08/21/2018	08/21/2018
18H0990-02	SV-02	Soil Vapor	08/21/2018	08/21/2018
18H0990-03	SV-03	Soil Vapor	08/21/2018	08/21/2018
18H0990-04	SV-04	Soil Vapor	08/21/2018	08/21/2018

General Notes for York Project (SDG) No.: 18H0990

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: 08/27/2018





Sample Information

Client Sample ID: SV-01

York Sample ID: 18H0990-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0990	PQ18052	Soil Vapor	August 21, 2018 12:00 pm	08/21/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	0.95	1.386	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 08:24	LDS
71-55-6	1,1,1-Trichloroethane	4.7		ug/m ³	0.76	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.95	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.1	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.76	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.56	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.55	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.0	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
95-63-6	1,2,4-Trimethylbenzene	29		ug/m ³	0.68	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.1	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.83	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.56	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.64	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.97	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
108-67-8	1,3,5-Trimethylbenzene	8.9		ug/m ³	0.68	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
106-99-0	1,3-Butadiene	2.0		ug/m ³	0.92	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.83	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.64	1.386	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 08:24	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.83	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
123-91-1	1,4-Dioxane	ND		ug/m ³	1.0	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
78-93-3	2-Butanone	28		ug/m ³	0.41	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
591-78-6	* 2-Hexanone	3.0		ug/m ³	1.1	1.386	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 08:24	LDS



Sample Information

Client Sample ID: SV-01

York Sample ID: 18H0990-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0990

PQ18052

Soil Vapor

August 21, 2018 12:00 pm

08/21/2018

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
107-05-1	3-Chloropropene	ND		ug/m ³	2.2	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
108-10-1	4-Methyl-2-pentanone	5.5		ug/m ³	0.57	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
67-64-1	Acetone	160		ug/m ³	0.66	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
107-13-1	Acrylonitrile	ND		ug/m ³	0.30	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
71-43-2	Benzene	11		ug/m ³	0.44	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
100-44-7	Benzyl chloride	ND		ug/m ³	0.72	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
75-27-4	Bromodichloromethane	ND		ug/m ³	0.93	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
75-25-2	Bromoform	ND		ug/m ³	1.4	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
74-83-9	Bromomethane	ND		ug/m ³	0.54	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
75-15-0	Carbon disulfide	3.5		ug/m ³	0.43	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.22	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
108-90-7	Chlorobenzene	ND		ug/m ³	0.64	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
75-00-3	Chloroethane	ND		ug/m ³	0.37	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
67-66-3	Chloroform	ND		ug/m ³	0.68	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
74-87-3	Chloromethane	3.1		ug/m ³	0.29	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.55	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.63	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
110-82-7	Cyclohexane	14		ug/m ³	0.48	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.2	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	0.69	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
141-78-6	* Ethyl acetate	3.9		ug/m ³	1.0	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
100-41-4	Ethyl Benzene	30		ug/m ³	0.60	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.5	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS



Sample Information

Client Sample ID: SV-01

York Sample ID: 18H0990-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0990

PQ18052

Soil Vapor

August 21, 2018 12:00 pm

08/21/2018

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
67-63-0	Isopropanol	4.7		ug/m ³	0.68	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.57	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.50	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
75-09-2	Methylene chloride	4.8		ug/m ³	0.96	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
91-20-3	* Naphthalene	9.4		ug/m ³	7.3	1.386	EPA TO-15 Certifications: NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
142-82-5	n-Heptane	13		ug/m ³	0.57	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
110-54-3	n-Hexane	6.6		ug/m ³	0.49	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
95-47-6	o-Xylene	31		ug/m ³	0.60	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
179601-23-1	p- & m- Xylenes	90		ug/m ³	1.2	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
622-96-8	* p-Ethyltoluene	31		ug/m ³	0.68	1.386	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 08:24	LDS
115-07-1	* Propylene	11		ug/m ³	0.24	1.386	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 08:24	LDS
100-42-5	Styrene	4.5		ug/m ³	0.59	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
127-18-4	Tetrachloroethylene	8.4		ug/m ³	0.24	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
109-99-9	* Tetrahydrofuran	20		ug/m ³	0.82	1.386	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 08:24	LDS
108-88-3	Toluene	110		ug/m ³	0.52	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.55	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.63	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
79-01-6	Trichloroethylene	ND		ug/m ³	0.19	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	0.78	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
108-05-4	Vinyl acetate	ND		ug/m ³	0.49	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
593-60-2	Vinyl bromide	ND		ug/m ³	0.61	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.35	1.386	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 08:24	LDS

Surrogate Recoveries

Result

Acceptance Range



Sample Information

Client Sample ID: SV-01

York Sample ID: 18H0990-01

<u>York Project (SDG) No.</u> 18H0990	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> August 21, 2018 12:00 pm	<u>Date Received</u> 08/21/2018
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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
460-00-4	Surrogate: p-Bromofluorobenzene	102 %			70-130					

Sample Information

Client Sample ID: SV-02

York Sample ID: 18H0990-02

<u>York Project (SDG) No.</u> 18H0990	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> August 21, 2018 12:00 pm	<u>Date Received</u> 08/21/2018
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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 ³	0.97	1.406	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 09:15	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.77	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.97	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.1	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.77	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.57	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.56	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.0	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
95-63-6	1,2,4-Trimethylbenzene	110		ug/m ³	0.69	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.1	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.85	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.57	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.65	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.98	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
108-67-8	1,3,5-Trimethylbenzene	28		ug/m ³	0.69	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
106-99-0	1,3-Butadiene	ND		ug/m ³	0.93	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS



Sample Information

Client Sample ID: SV-02

York Sample ID: 18H0990-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0990

PQ18052

Soil Vapor

August 21, 2018 12:00 pm

08/21/2018

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
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.85	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.65	1.406	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 09:15	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.85	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
123-91-1	1,4-Dioxane	ND		ug/m ³	1.0	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
78-93-3	2-Butanone	73		ug/m ³	0.41	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
591-78-6	* 2-Hexanone	8.8		ug/m ³	1.2	1.406	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 09:15	LDS
107-05-1	3-Chloropropene	ND		ug/m ³	2.2	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
108-10-1	4-Methyl-2-pentanone	9.6		ug/m ³	0.58	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
67-64-1	Acetone	370		ug/m ³	6.7	14.06	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 13:14	LDS
107-13-1	Acrylonitrile	ND		ug/m ³	0.31	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
71-43-2	Benzene	6.7		ug/m ³	0.45	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
100-44-7	Benzyl chloride	ND		ug/m ³	0.73	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
75-27-4	Bromodichloromethane	ND		ug/m ³	0.94	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
75-25-2	Bromoform	ND		ug/m ³	1.5	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
74-83-9	Bromomethane	ND		ug/m ³	0.55	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
75-15-0	Carbon disulfide	ND		ug/m ³	0.44	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.22	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
108-90-7	Chlorobenzene	ND		ug/m ³	0.65	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
75-00-3	Chloroethane	ND		ug/m ³	0.37	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
67-66-3	Chloroform	ND		ug/m ³	0.69	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
74-87-3	Chloromethane	10		ug/m ³	0.29	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.56	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.64	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS



Sample Information

Client Sample ID: SV-02

York Sample ID: 18H0990-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0990

PQ18052

Soil Vapor

August 21, 2018 12:00 pm

08/21/2018

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
110-82-7	Cyclohexane	51		ug/m ³	0.48	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.2	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	0.70	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
141-78-6	* Ethyl acetate	5.6		ug/m ³	1.0	1.406	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 09:15	LDS
100-41-4	Ethyl Benzene	25		ug/m ³	0.61	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.5	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
67-63-0	Isopropanol	17		ug/m ³	0.69	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.58	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.51	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
75-09-2	Methylene chloride	4.8		ug/m ³	0.98	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
91-20-3	* Naphthalene	9.8		ug/m ³	7.4	1.406	EPA TO-15 Certifications: NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
142-82-5	n-Heptane	40		ug/m ³	0.58	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
110-54-3	n-Hexane	6.0		ug/m ³	0.50	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
95-47-6	o-Xylene	35		ug/m ³	0.61	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
179601-23-1	p- & m- Xylenes	91		ug/m ³	1.2	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
622-96-8	* p-Ethyltoluene	100		ug/m ³	0.69	1.406	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 09:15	LDS
115-07-1	* Propylene	11		ug/m ³	0.24	1.406	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 09:15	LDS
100-42-5	Styrene	6.5		ug/m ³	0.60	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
127-18-4	Tetrachloroethylene	7.4		ug/m ³	0.24	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
109-99-9	* Tetrahydrofuran	30		ug/m ³	0.83	1.406	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 09:15	LDS
108-88-3	Toluene	74		ug/m ³	0.53	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.56	1.406	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 09:15	LDS



Sample Information

Client Sample ID: SV-02

York Sample ID: 18H0990-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0990

PQ18052

Soil Vapor

August 21, 2018 12:00 pm

08/21/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for trans-1,3-Dichloropropylene, Trichloroethylene, Trichlorofluoromethane, Vinyl acetate, Vinyl bromide, Vinyl Chloride, and Surrogate Recoveries for p-Bromofluorobenzene.

Sample Information

Client Sample ID: SV-03

York Sample ID: 18H0990-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0990

PQ18052

Soil Vapor

August 21, 2018 12:00 pm

08/21/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,2,4-Trichlorobenzene, and 1,2,4-Trimethylbenzene.



Sample Information

Client Sample ID: SV-03

York Sample ID: 18H0990-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0990

PQ18052

Soil Vapor

August 21, 2018 12:00 pm

08/21/2018

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
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.0	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.82	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.55	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.63	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.95	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
108-67-8	1,3,5-Trimethylbenzene	4.9		ug/m ³	0.67	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
106-99-0	1,3-Butadiene	ND		ug/m ³	0.90	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.82	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.63	1.358	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 10:07	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.82	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
123-91-1	1,4-Dioxane	ND		ug/m ³	0.98	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
78-93-3	2-Butanone	6.1		ug/m ³	0.40	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
591-78-6	* 2-Hexanone	ND		ug/m ³	1.1	1.358	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 10:07	LDS
107-05-1	3-Chloropropene	ND		ug/m ³	2.1	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.56	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
67-64-1	Acetone	32		ug/m ³	0.65	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
107-13-1	Acrylonitrile	ND		ug/m ³	0.29	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
71-43-2	Benzene	9.2		ug/m ³	0.43	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
100-44-7	Benzyl chloride	ND		ug/m ³	0.70	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
75-27-4	Bromodichloromethane	ND		ug/m ³	0.91	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
75-25-2	Bromoform	ND		ug/m ³	1.4	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
74-83-9	Bromomethane	ND		ug/m ³	0.53	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
75-15-0	Carbon disulfide	ND		ug/m ³	0.42	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS



Sample Information

Client Sample ID: SV-03

York Sample ID: 18H0990-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0990

PQ18052

Soil Vapor

August 21, 2018 12:00 pm

08/21/2018

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
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.21	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
108-90-7	Chlorobenzene	ND		ug/m ³	0.63	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
75-00-3	Chloroethane	ND		ug/m ³	0.36	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
67-66-3	Chloroform	35		ug/m ³	0.66	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
74-87-3	Chloromethane	ND		ug/m ³	0.28	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.54	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.62	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
110-82-7	Cyclohexane	6.9		ug/m ³	0.47	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.2	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	0.67	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
141-78-6	* Ethyl acetate	ND		ug/m ³	0.98	1.358	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 10:07	LDS
100-41-4	Ethyl Benzene	24		ug/m ³	0.59	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.4	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
67-63-0	Isopropanol	3.1		ug/m ³	0.67	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.56	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.49	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
75-09-2	Methylene chloride	ND		ug/m ³	0.94	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
91-20-3	* Naphthalene	8.9		ug/m ³	7.1	1.358	EPA TO-15 Certifications: NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
142-82-5	n-Heptane	12		ug/m ³	0.56	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
110-54-3	n-Hexane	4.5		ug/m ³	0.48	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
95-47-6	o-Xylene	22		ug/m ³	0.59	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
179601-23-1	p- & m- Xylenes	67		ug/m ³	1.2	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
622-96-8	* p-Ethyltoluene	19		ug/m ³	0.67	1.358	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 10:07	LDS



Sample Information

Client Sample ID: SV-03

York Sample ID: 18H0990-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0990

PQ18052

Soil Vapor

August 21, 2018 12:00 pm

08/21/2018

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
115-07-1	* Propylene	2.9		ug/m ³	0.23	1.358	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 10:07	LDS
100-42-5	Styrene	3.6		ug/m ³	0.58	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
127-18-4	Tetrachloroethylene	2700		ug/m ³	2.3	13.58	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 13:59	LDS
109-99-9	* Tetrahydrofuran	5.0		ug/m ³	0.80	1.358	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 10:07	LDS
108-88-3	Toluene	90		ug/m ³	0.51	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.54	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.62	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
79-01-6	Trichloroethylene	10		ug/m ³	0.18	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	4.9		ug/m ³	0.76	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
108-05-4	Vinyl acetate	ND		ug/m ³	0.48	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
593-60-2	Vinyl bromide	ND		ug/m ³	0.59	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.35	1.358	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:07	LDS
Surrogate Recoveries		Result			Acceptance Range					
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	107 %			70-130					

Sample Information

Client Sample ID: SV-04

York Sample ID: 18H0990-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0990

PQ18052

Soil Vapor

August 21, 2018 12:00 pm

08/21/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	0.94	1.367	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 10:59	LDS
71-55-6	1,1,1-Trichloroethane	620		ug/m ³	15	27.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 14:45	LDS



Sample Information

Client Sample ID: SV-04

York Sample ID: 18H0990-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0990

PQ18052

Soil Vapor

August 21, 2018 12:00 pm

08/21/2018

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
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.94	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.0	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.75	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
75-34-3	1,1-Dichloroethane	7.8		ug/m ³	0.55	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.54	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.0	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
95-63-6	1,2,4-Trimethylbenzene	17		ug/m ³	0.67	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.1	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.82	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.55	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.63	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.96	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
108-67-8	1,3,5-Trimethylbenzene	3.7		ug/m ³	0.67	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
106-99-0	1,3-Butadiene	ND		ug/m ³	0.91	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.82	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.63	1.367	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 10:59	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.82	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
123-91-1	1,4-Dioxane	ND		ug/m ³	0.99	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
78-93-3	2-Butanone	3.7		ug/m ³	0.40	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
591-78-6	* 2-Hexanone	ND		ug/m ³	1.1	1.367	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 10:59	LDS
107-05-1	3-Chloropropene	ND		ug/m ³	2.1	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.56	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
67-64-1	Acetone	18		ug/m ³	0.65	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS



Sample Information

Client Sample ID: SV-04

York Sample ID: 18H0990-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0990

PQ18052

Soil Vapor

August 21, 2018 12:00 pm

08/21/2018

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
107-13-1	Acrylonitrile	ND		ug/m ³	0.30	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
71-43-2	Benzene	6.7		ug/m ³	0.44	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
100-44-7	Benzyl chloride	ND		ug/m ³	0.71	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
75-27-4	Bromodichloromethane	ND		ug/m ³	0.92	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
75-25-2	Bromoform	ND		ug/m ³	1.4	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
74-83-9	Bromomethane	ND		ug/m ³	0.53	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
75-15-0	Carbon disulfide	ND		ug/m ³	0.43	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.22	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
108-90-7	Chlorobenzene	ND		ug/m ³	0.63	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
75-00-3	Chloroethane	ND		ug/m ³	0.36	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
67-66-3	Chloroform	86		ug/m ³	0.67	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
74-87-3	Chloromethane	ND		ug/m ³	0.28	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.54	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.62	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
110-82-7	Cyclohexane	ND		ug/m ³	0.47	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.2	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	0.68	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
141-78-6	* Ethyl acetate	ND		ug/m ³	0.99	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
100-41-4	Ethyl Benzene	19		ug/m ³	0.59	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.5	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
67-63-0	Isopropanol	3.9		ug/m ³	0.67	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.56	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.49	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS



Sample Information

Client Sample ID: SV-04

York Sample ID: 18H0990-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0990

PQ18052

Soil Vapor

August 21, 2018 12:00 pm

08/21/2018

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
75-09-2	Methylene chloride	ND		ug/m ³	0.95	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
91-20-3	* Naphthalene	7.3		ug/m ³	7.2	1.367	EPA TO-15 Certifications: NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
142-82-5	n-Heptane	12		ug/m ³	0.56	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
110-54-3	n-Hexane	6.6		ug/m ³	0.48	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
95-47-6	o-Xylene	18		ug/m ³	0.59	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
179601-23-1	p- & m- Xylenes	53		ug/m ³	1.2	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
622-96-8	* p-Ethyltoluene	16		ug/m ³	0.67	1.367	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 10:59	LDS
115-07-1	* Propylene	2.4		ug/m ³	0.24	1.367	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 10:59	LDS
100-42-5	Styrene	ND		ug/m ³	0.58	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
127-18-4	Tetrachloroethylene	1700		ug/m ³	4.6	27.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 14:45	LDS
109-99-9	* Tetrahydrofuran	4.4		ug/m ³	0.81	1.367	EPA TO-15 Certifications:	08/23/2018 17:30	08/24/2018 10:59	LDS
108-88-3	Toluene	68		ug/m ³	0.52	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.54	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.62	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
79-01-6	Trichloroethylene	5.3		ug/m ³	0.18	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	0.77	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
108-05-4	Vinyl acetate	ND		ug/m ³	0.48	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
593-60-2	Vinyl bromide	ND		ug/m ³	0.60	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.35	1.367	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/23/2018 17:30	08/24/2018 10:59	LDS
	Surrogate Recoveries	Result		Acceptance Range						
460-00-4	Surrogate: p-Bromofluorobenzene	105 %		70-130						



Analytical Batch Summary

Batch ID: BH81219

Preparation Method: EPA TO15 PREP

Prepared By: LDS

YORK Sample ID	Client Sample ID	Preparation Date
18H0990-01	SV-01	08/23/18
18H0990-02	SV-02	08/23/18
18H0990-02RE1	SV-02	08/23/18
18H0990-03	SV-03	08/23/18
18H0990-03RE1	SV-03	08/23/18
18H0990-04	SV-04	08/23/18
18H0990-04RE1	SV-04	08/23/18
BH81219-BLK1	Blank	08/23/18
BH81219-BS1	LCS	08/23/18



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 BH81219 - EPA TO15 PREP

Blank (BH81219-BLK1)

Prepared & Analyzed: 08/23/2018

1,1,1,2-Tetrachloroethane	ND	0.69	ug/m ³								
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	0.40	"								
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	0.40	"								
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	"								
Naphthalene	ND	5.2	"								



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 BH81219 - EPA TO15 PREP

Blank (BH81219-BLK1)

Prepared & Analyzed: 08/23/2018

n-Heptane	ND	0.41	ug/m ³								
n-Hexane	ND	0.35	"								
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	0.26	"								
Surrogate: p-Bromofluorobenzene	8.84		ppbv	10.0		88.4	70-130				

LCS (BH81219-BS1)

Prepared & Analyzed: 08/23/2018

1,1,1,2-Tetrachloroethane	9.24		ppbv	10.0		92.4	70-130				
1,1,1-Trichloroethane	9.84		"	10.0		98.4	70-130				
1,1,2,2-Tetrachloroethane	9.39		"	10.0		93.9	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2		"	10.0		102	70-130				
1,1,2-Trichloroethane	9.17		"	10.0		91.7	70-130				
1,1-Dichloroethane	9.86		"	10.0		98.6	70-130				
1,1-Dichloroethylene	8.97		"	10.0		89.7	70-130				
1,2,4-Trichlorobenzene	9.35		"	10.0		93.5	70-130				
1,2,4-Trimethylbenzene	9.22		"	10.0		92.2	70-130				
1,2-Dibromoethane	9.30		"	10.0		93.0	70-130				
1,2-Dichlorobenzene	10.3		"	10.0		103	70-130				
1,2-Dichloroethane	9.52		"	10.0		95.2	70-130				
1,2-Dichloropropane	8.84		"	10.0		88.4	70-130				
1,2-Dichlorotetrafluoroethane	11.3		"	10.0		113	70-130				
1,3,5-Trimethylbenzene	8.55		"	10.0		85.5	70-130				
1,3-Butadiene	11.6		"	10.0		116	70-130				
1,3-Dichlorobenzene	10.6		"	10.0		106	70-130				
1,3-Dichloropropane	8.90		"	10.0		89.0	70-130				
1,4-Dichlorobenzene	10.9		"	10.0		109	70-130				
1,4-Dioxane	6.22		"	10.0		62.2	70-130			Low Bias	
2-Butanone	9.19		"	10.0		91.9	70-130				
2-Hexanone	7.86		"	10.0		78.6	70-130				
3-Chloropropene	9.15		"	10.0		91.5	70-130				
4-Methyl-2-pentanone	7.70		"	10.0		77.0	70-130				
Acetone	8.77		"	10.0		87.7	70-130				
Acrylonitrile	10.5		"	10.0		105	70-130				
Benzene	9.47		"	10.0		94.7	70-130				
Benzyl chloride	9.89		"	10.0		98.9	70-130				
Bromodichloromethane	9.10		"	10.0		91.0	70-130				
Bromoform	9.86		"	10.0		98.6	70-130				
Bromomethane	9.38		"	10.0		93.8	70-130				



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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit							Units			
Batch BH81219 - EPA TO15 PREP												
LCS (BH81219-BS1)											Prepared & Analyzed: 08/23/2018	
Carbon disulfide	10.8		ppbv	10.0		108	70-130					
Carbon tetrachloride	8.92		"	10.0		89.2	70-130					
Chlorobenzene	9.47		"	10.0		94.7	70-130					
Chloroethane	11.0		"	10.0		110	70-130					
Chloroform	9.77		"	10.0		97.7	70-130					
Chloromethane	11.7		"	10.0		117	70-130					
cis-1,2-Dichloroethylene	9.27		"	10.0		92.7	70-130					
cis-1,3-Dichloropropylene	9.19		"	10.0		91.9	70-130					
Cyclohexane	9.89		"	10.0		98.9	70-130					
Dibromochloromethane	9.18		"	10.0		91.8	70-130					
Dichlorodifluoromethane	10.4		"	10.0		104	70-130					
Ethyl acetate	9.35		"	10.0		93.5	70-130					
Ethyl Benzene	8.79		"	10.0		87.9	70-130					
Hexachlorobutadiene	9.71		"	10.0		97.1	70-130					
Isopropanol	10.7		"	10.0		107	70-130					
Methyl Methacrylate	8.87		"	10.0		88.7	70-130					
Methyl tert-butyl ether (MTBE)	16.9		"	10.0		169	70-130	High Bias				
Methylene chloride	9.77		"	10.0		97.7	70-130					
Naphthalene	9.44		"	10.0		94.4	70-130					
n-Heptane	9.09		"	10.0		90.9	70-130					
n-Hexane	10.0		"	10.0		100	70-130					
o-Xylene	8.42		"	10.0		84.2	70-130					
p- & m- Xylenes	17.7		"	20.0		88.6	70-130					
p-Ethyltoluene	9.58		"	10.0		95.8	70-130					
Propylene	9.46		"	10.0		94.6	70-130					
Styrene	9.58		"	10.0		95.8	70-130					
Tetrachloroethylene	9.68		"	10.0		96.8	70-130					
Tetrahydrofuran	9.36		"	10.0		93.6	70-130					
Toluene	8.73		"	10.0		87.3	70-130					
trans-1,2-Dichloroethylene	10.3		"	10.0		103	70-130					
trans-1,3-Dichloropropylene	8.76		"	10.0		87.6	70-130					
Trichloroethylene	8.31		"	10.0		83.1	70-130					
Trichlorofluoromethane (Freon 11)	9.76		"	10.0		97.6	70-130					
Vinyl acetate	14.1		"	10.0		141	70-130	High Bias				
Vinyl bromide	10.4		"	10.0		104	70-130					
Vinyl Chloride	11.3		"	10.0		113	70-130					
Surrogate: p-Bromofluorobenzene	10.2		"	10.0		102	70-130					





Sample and Data Qualifiers Relating to This Work Order

- 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.
- CCV-A The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to detected analytes only.

Definitions and Other Explanations

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

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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



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





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.
 1810790

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

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.

Page 1 of 1

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: WCD Group	Company:	Company:		Company:		PA18052		RUSH - Next Day	
Address: 24 Davis Ave	Address:	Address:		Address:		PA18052.20		RUSH - Two Day	
Phone: Poughkeepsic NY	Phone:	Phone:		Phone:				RUSH - Three Day	
Contact: 845-482-1658	Contact: Tyler Goodmough	Contact: Tyler Goodmough		Contact: Breeda Wells				RUSH - Four Day	
E-mail: Tyler Goodmough	E-mail:	E-mail:		E-mail:				Standard (5-7 Day) <input checked="" type="checkbox"/>	
<p>Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.</p>									
Samples Collected by: Tyler Goodmough		Samples From		Report / EDD Type (circle selections)		YORK Reg. Comp.			
SPL GR		New York		Summary Report		Standard Excel EDD			
		New Jersey		QA Report		EQUS (Standard)			
		Connecticut		NY ASP A Package		NYSDEC EQUS			
		Pennsylvania		NY ASP B Package		NJDEP SRP HazSite			
		Other		Other:					
<p>Certified Canisters: Batch _____ Individual _____</p>									
<p>Please enter the following REQUIRED Field Data</p>									
Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Reporting Units: ug/m ³ ppbv _____ ppmv _____		
SV-01	8/21/18	AS	-30	-1	28308	7607	Analysis Requested		
SV-02	↓	↓	-32	-4	10045	6862	T0-15		
SV-03	↓	↓	-32	-2	24058	6875	↓		
SV-04	↓	↓	-33	-4		6861	↓		
<p>Comments:</p>									
Samples Relinquished by / Company		Samples Received by / Company		Detection Limits Required		Sampling Media			
SPL - WCD		Edmough		≤ 1 ug/m ³ Routine Survey		6 Liter Canister			
Date/Time: 8/21/18 - 12:55		Date/Time: 8/21/18		NYSDEC V1 Limits		Tedlar Bag			
Samples Received by / Company		Samples Relinquished by / Company		Other		Date/Time: 8/21/18 11:00			
Date/Time:		Date/Time:		Date/Time:		Date/Time:			
Date/Time:		Date/Time:		Date/Time:		Date/Time: 8/21/18 16:00			



Technical Report

prepared for:

WCD Group - Poughkeepsie NY
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Tyler Goodnough

Report Date: 08/28/2018
Client Project ID: PQ18052
York Project (SDG) No.: 18H0955

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
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STRATFORD, CT 06615
(203) 325-1371



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

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 08/28/2018
Client Project ID: PQ18052
York Project (SDG) No.: 18H0955

WCD Group - Poughkeepsie NY
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Tyler Goodnough

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 August 21, 2018 and listed below. The project was identified as your project: **PQ18052**.

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>
18H0955-01	SB-01 13-15	Soil	08/21/2018	08/21/2018
18H0955-02	SB-02 13-15	Soil	08/21/2018	08/21/2018

General Notes for York Project (SDG) No.: 18H0955

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: 08/28/2018





Sample Information

Client Sample ID: SB-01 13-15

York Sample ID: 18H0955-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0955	PQ18052	Soil	August 21, 2018 12:00 pm	08/21/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/23/2018 14:00	08/23/2018 22:37	LL
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/23/2018 14:00	08/23/2018 22:37	LL
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
123-91-1	1,4-Dioxane	ND		ug/kg dry	50	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
78-93-3	2-Butanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
591-78-6	2-Hexanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL



Sample Information

Client Sample ID: SB-01 13-15

York Sample ID: 18H0955-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0955

PQ18052

Soil

August 21, 2018 12:00 pm

08/21/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
67-64-1	Acetone	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
107-02-8	Acrolein	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
107-13-1	Acrylonitrile	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
71-43-2	Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
74-97-5	Bromochloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
75-25-2	Bromoform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
74-83-9	Bromomethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
75-15-0	Carbon disulfide	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
108-90-7	Chlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
75-00-3	Chloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
67-66-3	Chloroform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
74-87-3	Chloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
110-82-7	Cyclohexane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
74-95-3	Dibromomethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL



Sample Information

Client Sample ID: SB-01 13-15

York Sample ID: 18H0955-01

<u>York Project (SDG) No.</u> 18H0955	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 21, 2018 12:00 pm	<u>Date Received</u> 08/21/2018
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
79-20-9	Methyl acetate	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
75-09-2	Methylene chloride	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
95-47-6	o-Xylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
100-42-5	Styrene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
108-88-3	Toluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
79-01-6	Trichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 22:37	LL
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.6	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/23/2018 14:00	08/23/2018 22:37	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	93.7 %	77-125
2037-26-5	Surrogate: Toluene-d8	93.7 %	85-120



Sample Information

Client Sample ID: SB-01 13-15

York Sample ID: 18H0955-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0955

PQ18052

Soil

August 21, 2018 12:00 pm

08/21/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	108 %			76-130						

Semi-Volatiles, PAH Target List

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
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW
83-32-9	Acenaphthene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW
120-12-7	Anthracene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW
218-01-9	Chrysene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW
206-44-0	Fluoranthene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW
86-73-7	Fluorene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW
91-20-3	Naphthalene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW
85-01-8	Phenanthrene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW
129-00-0	Pyrene	ND		ug/kg dry	43.2	86.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 12:32	OW

Surrogate Recoveries

Result

Acceptance Range

4165-60-0	Surrogate: Nitrobenzene-d5	94.7 %	22-108
321-60-8	Surrogate: 2-Fluorobiphenyl	88.6 %	21-113
1718-51-0	Surrogate: Terphenyl-d14	93.7 %	24-116



Sample Information

Client Sample ID: SB-01 13-15

York Sample ID: 18H0955-01

<u>York Project (SDG) No.</u> 18H0955	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 21, 2018 12:00 pm	<u>Date Received</u> 08/21/2018
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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	96.5		%	0.100	1	SM 2540G Certifications: CTDOH	08/25/2018 10:07	08/27/2018 12:37	TAJ

Sample Information

Client Sample ID: SB-02 13-15

York Sample ID: 18H0955-02

<u>York Project (SDG) No.</u> 18H0955	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 21, 2018 12:00 pm	<u>Date Received</u> 08/21/2018
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/23/2018 14:00	08/23/2018 23:07	LL
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/23/2018 14:00	08/23/2018 23:07	LL
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL



Sample Information

Client Sample ID: SB-02 13-15

York Sample ID: 18H0955-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0955

PQ18052

Soil

August 21, 2018 12:00 pm

08/21/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
123-91-1	1,4-Dioxane	ND		ug/kg dry	49	98	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
78-93-3	2-Butanone	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
591-78-6	2-Hexanone	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
67-64-1	Acetone	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
107-02-8	Acrolein	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
107-13-1	Acrylonitrile	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
71-43-2	Benzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
74-97-5	Bromochloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
75-25-2	Bromoform	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
74-83-9	Bromomethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
75-15-0	Carbon disulfide	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
108-90-7	Chlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
75-00-3	Chloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
67-66-3	Chloroform	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
74-87-3	Chloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL



Sample Information

Client Sample ID: SB-02 13-15

York Sample ID: 18H0955-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0955

PQ18052

Soil

August 21, 2018 12:00 pm

08/21/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
110-82-7	Cyclohexane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
74-95-3	Dibromomethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
79-20-9	Methyl acetate	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
75-09-2	Methylene chloride	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
100-42-5	Styrene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL



Sample Information

Client Sample ID: SB-02 13-15

York Sample ID: 18H0955-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0955

PQ18052

Soil

August 21, 2018 12:00 pm

08/21/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
79-01-6	Trichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/23/2018 14:00	08/23/2018 23:07	LL
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.3	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/23/2018 14:00	08/23/2018 23:07	LL
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	91.7 %			77-125						
2037-26-5	Surrogate: Toluene-d8	93.9 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	104 %			76-130						

Semi-Volatiles, PAH Target List

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
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW
83-32-9	Acenaphthene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW
120-12-7	Anthracene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW
218-01-9	Chrysene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW



Sample Information

Client Sample ID: SB-02 13-15

York Sample ID: 18H0955-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H0955

PQ18052

Soil

August 21, 2018 12:00 pm

08/21/2018

Semi-Volatiles, PAH Target List

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
206-44-0	Fluoranthene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW
86-73-7	Fluorene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW
91-20-3	Naphthalene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW
85-01-8	Phenanthrene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW
129-00-0	Pyrene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/27/2018 09:18	08/27/2018 13:03	OW
Surrogate Recoveries		Result			Acceptance Range						
4165-60-0	Surrogate: Nitrobenzene-d5	90.5 %			22-108						
321-60-8	Surrogate: 2-Fluorobiphenyl	74.2 %			21-113						
1718-51-0	Surrogate: Terphenyl-d14	85.8 %			24-116						

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	97.0		%	0.100	1	SM 2540G Certifications: CTDOH	08/25/2018 10:07	08/27/2018 12:37	TAJ



Analytical Batch Summary

Batch ID: BH81146 **Preparation Method:** EPA 5035A **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
18H0955-01	SB-01 13-15	08/23/18
18H0955-02	SB-02 13-15	08/23/18
BH81146-BLK1	Blank	08/23/18
BH81146-BS1	LCS	08/23/18
BH81146-BSD1	LCS Dup	08/23/18

Batch ID: BH81294 **Preparation Method:** % Solids Prep **Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18H0955-01	SB-01 13-15	08/25/18
18H0955-02	SB-02 13-15	08/25/18
BH81294-DUP1	Duplicate	08/25/18

Batch ID: BH81310 **Preparation Method:** EPA 3550C **Prepared By:** SGM

YORK Sample ID	Client Sample ID	Preparation Date
18H0955-01	SB-01 13-15	08/27/18
18H0955-02	SB-02 13-15	08/27/18
BH81310-BLK1	Blank	08/27/18
BH81310-BS1	LCS	08/27/18



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 BH81146 - EPA 5035A

Blank (BH81146-BLK1)

Prepared & Analyzed: 08/23/2018

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Cyclohexane	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								
Methylene chloride	ND	10	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BH81146 - EPA 5035A

Blank (BH81146-BLK1)

Prepared & Analyzed: 08/23/2018

n-Butylbenzene	ND	5.0	ug/kg wet								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butyl alcohol (TBA)	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								

<i>Surrogate: 1,2-Dichloroethane-d4</i>	45.8		ug/L	50.0		91.7	77-125				
<i>Surrogate: Toluene-d8</i>	47.3		"	50.0		94.6	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	52.1		"	50.0		104	76-130				

LCS (BH81146-BS1)

Prepared & Analyzed: 08/23/2018

1,1,1,2-Tetrachloroethane	56		ug/L	50.0		112	75-129				
1,1,1-Trichloroethane	53		"	50.0		106	71-137				
1,1,2,2-Tetrachloroethane	62		"	50.0		124	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49		"	50.0		98.3	58-146				
1,1,2-Trichloroethane	53		"	50.0		105	83-123				
1,1-Dichloroethane	50		"	50.0		100	75-130				
1,1-Dichloroethylene	46		"	50.0		92.3	64-137				
1,2,3-Trichlorobenzene	62		"	50.0		125	81-140				
1,2,3-Trichloropropane	62		"	50.0		125	81-126				
1,2,4-Trichlorobenzene	62		"	50.0		124	80-141				
1,2,4-Trimethylbenzene	57		"	50.0		114	84-125				
1,2-Dibromo-3-chloropropane	64		"	50.0		127	74-142				
1,2-Dibromoethane	58		"	50.0		116	86-123				
1,2-Dichlorobenzene	55		"	50.0		111	85-122				
1,2-Dichloroethane	47		"	50.0		94.7	71-133				
1,2-Dichloropropane	50		"	50.0		100	81-122				
1,3,5-Trimethylbenzene	56		"	50.0		111	82-126				
1,3-Dichlorobenzene	58		"	50.0		117	84-124				
1,4-Dichlorobenzene	58		"	50.0		117	84-124				
1,4-Dioxane	400		"	1050		38.4	10-228				
2-Butanone	57		"	50.0		115	58-147				
2-Hexanone	53		"	50.0		107	70-139				
4-Methyl-2-pentanone	38		"	50.0		75.6	72-132				
Acetone	46		"	50.0		91.8	36-155				
Acrolein	33		"	50.0		66.9	10-238				
Acrylonitrile	55		"	50.0		110	66-141				
Benzene	50		"	50.0		101	77-127				
Bromochloromethane	50		"	50.0		99.7	74-129				
Bromodichloromethane	54		"	50.0		109	81-124				



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 BH81146 - EPA 5035A

LCS (BH81146-BS1)

Prepared & Analyzed: 08/23/2018

Bromoform	63		ug/L	50.0		127	80-136				
Bromomethane	24		"	50.0		47.7	32-177				
Carbon disulfide	50		"	50.0		100	10-136				
Carbon tetrachloride	54		"	50.0		109	66-143				
Chlorobenzene	52		"	50.0		104	86-120				
Chloroethane	26		"	50.0		51.1	51-142				
Chloroform	53		"	50.0		105	76-131				
Chloromethane	28		"	50.0		56.8	49-132				
cis-1,2-Dichloroethylene	51		"	50.0		102	74-132				
cis-1,3-Dichloropropylene	55		"	50.0		111	81-129				
Cyclohexane	43		"	50.0		86.1	70-130				
Dibromochloromethane	57		"	50.0		115	10-200				
Dibromomethane	51		"	50.0		103	83-124				
Dichlorodifluoromethane	71		"	50.0		143	28-158				
Ethyl Benzene	52		"	50.0		104	84-125				
Hexachlorobutadiene	63		"	50.0		125	83-133				
Isopropylbenzene	56		"	50.0		113	81-127				
Methyl acetate	49		"	50.0		98.6	41-143				
Methyl tert-butyl ether (MTBE)	51		"	50.0		102	74-131				
Methylcyclohexane	52		"	50.0		104	70-130				
Methylene chloride	47		"	50.0		94.7	57-141				
n-Butylbenzene	53		"	50.0		107	80-130				
n-Propylbenzene	56		"	50.0		112	74-136				
o-Xylene	51		"	50.0		101	83-123				
p- & m- Xylenes	96		"	100		95.8	82-128				
p-Isopropyltoluene	58		"	50.0		116	85-125				
sec-Butylbenzene	59		"	50.0		118	83-125				
Styrene	50		"	50.0		99.5	86-126				
tert-Butyl alcohol (TBA)	260		"	250		105	70-130				
tert-Butylbenzene	52		"	50.0		105	80-127				
Tetrachloroethylene	41		"	50.0		82.8	80-129				
Toluene	50		"	50.0		99.7	85-121				
trans-1,2-Dichloroethylene	49		"	50.0		97.3	72-132				
trans-1,3-Dichloropropylene	55		"	50.0		110	78-132				
Trichloroethylene	55		"	50.0		110	84-123				
Trichlorofluoromethane	25		"	50.0		49.3	62-140	Low Bias			
Vinyl Chloride	27		"	50.0		53.8	52-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>45.9</i>		<i>"</i>	<i>50.0</i>		<i>91.8</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>47.2</i>		<i>"</i>	<i>50.0</i>		<i>94.5</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>57.4</i>		<i>"</i>	<i>50.0</i>		<i>115</i>	<i>76-130</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source*		%REC Limits	Flag	RPD	
		Limit	Units		Result	%REC			RPD	Limit
Batch BH81146 - EPA 5035A										
LCS Dup (BH81146-BSD1)										
Prepared & Analyzed: 08/23/2018										
1,1,1,2-Tetrachloroethane	55		ug/L	50.0	110	75-129			1.78	30
1,1,1-Trichloroethane	52		"	50.0	103	71-137			2.43	30
1,1,2,2-Tetrachloroethane	60		"	50.0	120	79-129			2.57	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48		"	50.0	95.9	58-146			2.45	30
1,1,2-Trichloroethane	51		"	50.0	101	83-123			3.73	30
1,1-Dichloroethane	49		"	50.0	97.7	75-130			2.35	30
1,1-Dichloroethylene	45		"	50.0	90.2	64-137			2.32	30
1,2,3-Trichlorobenzene	61		"	50.0	122	81-140			2.43	30
1,2,3-Trichloropropane	60		"	50.0	120	81-126			3.36	30
1,2,4-Trichlorobenzene	63		"	50.0	127	80-141			2.12	30
1,2,4-Trimethylbenzene	57		"	50.0	114	84-125			0.123	30
1,2-Dibromo-3-chloropropane	60		"	50.0	121	74-142			4.95	30
1,2-Dibromoethane	56		"	50.0	113	86-123			3.16	30
1,2-Dichlorobenzene	56		"	50.0	111	85-122			0.667	30
1,2-Dichloroethane	45		"	50.0	90.9	71-133			4.03	30
1,2-Dichloropropane	50		"	50.0	100	81-122			0.160	30
1,3,5-Trimethylbenzene	55		"	50.0	109	82-126			1.98	30
1,3-Dichlorobenzene	58		"	50.0	116	84-124			0.189	30
1,4-Dichlorobenzene	59		"	50.0	118	84-124			0.837	30
1,4-Dioxane	380		"	1050	36.3	10-228			5.68	30
2-Butanone	56		"	50.0	112	58-147			2.06	30
2-Hexanone	50		"	50.0	99.5	70-139			6.89	30
4-Methyl-2-pentanone	36		"	50.0	72.7	72-132			3.88	30
Acetone	41		"	50.0	81.3	36-155			12.0	30
Acrolein	31		"	50.0	61.6	10-238			8.34	30
Acrylonitrile	53		"	50.0	105	66-141			4.90	30
Benzene	49		"	50.0	97.8	77-127			3.02	30
Bromochloromethane	49		"	50.0	97.4	74-129			2.37	30
Bromodichloromethane	53		"	50.0	106	81-124			2.20	30
Bromoform	63		"	50.0	127	80-136			0.189	30
Bromomethane	23		"	50.0	45.3	32-177			5.25	30
Carbon disulfide	48		"	50.0	95.5	10-136			4.98	30
Carbon tetrachloride	52		"	50.0	104	66-143			4.18	30
Chlorobenzene	51		"	50.0	103	86-120			1.31	30
Chloroethane	25		"	50.0	50.1	51-142	Low Bias		2.02	30
Chloroform	51		"	50.0	101	76-131			3.75	30
Chloromethane	27		"	50.0	53.4	49-132			6.14	30
cis-1,2-Dichloroethylene	50		"	50.0	99.5	74-132			2.89	30
cis-1,3-Dichloropropylene	53		"	50.0	106	81-129			4.00	30
Cyclohexane	41		"	50.0	82.3	70-130			4.49	30
Dibromochloromethane	55		"	50.0	111	10-200			3.19	30
Dibromomethane	51		"	50.0	101	83-124			1.61	30
Dichlorodifluoromethane	68		"	50.0	136	28-158			4.40	30
Ethyl Benzene	51		"	50.0	102	84-125			2.18	30
Hexachlorobutadiene	62		"	50.0	124	83-133			1.08	30
Isopropylbenzene	56		"	50.0	112	81-127			0.373	30
Methyl acetate	46		"	50.0	92.2	41-143			6.77	30
Methyl tert-butyl ether (MTBE)	50		"	50.0	99.2	74-131			3.31	30
Methylcyclohexane	50		"	50.0	100	70-130			3.88	30
Methylene chloride	48		"	50.0	95.6	57-141			0.883	30
n-Butylbenzene	53		"	50.0	107	80-130			0.112	30



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

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

Batch BH81146 - EPA 5035A

LCS Dup (BH81146-BSD1)

Prepared & Analyzed: 08/23/2018

n-Propylbenzene	56		ug/L	50.0		111	74-136		0.179	30
o-Xylene	49		"	50.0		98.8	83-123		2.48	30
p- & m- Xylenes	95		"	100		94.6	82-128		1.23	30
p-Isopropyltoluene	58		"	50.0		115	85-125		0.727	30
sec-Butylbenzene	58		"	50.0		116	83-125		1.49	30
Styrene	49		"	50.0		97.4	86-126		2.09	30
tert-Butyl alcohol (TBA)	250		"	250		98.2	70-130		6.70	30
tert-Butylbenzene	52		"	50.0		103	80-127		1.43	30
Tetrachloroethylene	40		"	50.0		80.9	80-129		2.37	30
Toluene	49		"	50.0		97.7	85-121		2.01	30
trans-1,2-Dichloroethylene	47		"	50.0		93.1	72-132		4.43	30
trans-1,3-Dichloropropylene	53		"	50.0		105	78-132		4.45	30
Trichloroethylene	53		"	50.0		107	84-123		2.55	30
Trichlorofluoromethane	24		"	50.0		47.8	62-140	Low Bias	3.25	30
Vinyl Chloride	26		"	50.0		52.1	52-130		3.06	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>45.5</i>		<i>"</i>	<i>50.0</i>		<i>91.0</i>	<i>77-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>46.5</i>		<i>"</i>	<i>50.0</i>		<i>93.1</i>	<i>85-120</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>56.5</i>		<i>"</i>	<i>50.0</i>		<i>113</i>	<i>76-130</i>			



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 BH81310 - EPA 3550C

Blank (BH81310-BLK1)

Prepared & Analyzed: 08/27/2018

2-Methylnaphthalene	ND	41.7	ug/kg wet								
Acenaphthene	ND	41.7	"								
Acenaphthylene	ND	41.7	"								
Anthracene	ND	41.7	"								
Benzo(a)anthracene	ND	41.7	"								
Benzo(a)pyrene	ND	41.7	"								
Benzo(b)fluoranthene	ND	41.7	"								
Benzo(g,h,i)perylene	ND	41.7	"								
Benzo(k)fluoranthene	ND	41.7	"								
Chrysene	ND	41.7	"								
Dibenzo(a,h)anthracene	ND	41.7	"								
Fluoranthene	ND	41.7	"								
Fluorene	ND	41.7	"								
Indeno(1,2,3-cd)pyrene	ND	41.7	"								
Naphthalene	ND	41.7	"								
Phenanthrene	ND	41.7	"								
Pyrene	ND	41.7	"								
Surrogate: Nitrobenzene-d5	934		"	833		112	22-108				
Surrogate: 2-Fluorobiphenyl	746		"	833		89.5	21-113				
Surrogate: Terphenyl-d14	874		"	833		105	24-116				

LCS (BH81310-BS1)

Prepared & Analyzed: 08/27/2018

2-Methylnaphthalene	820	41.7	ug/kg wet	833		98.4	16-127				
Acenaphthene	746	41.7	"	833		89.6	17-124				
Acenaphthylene	642	41.7	"	833		77.0	16-124				
Anthracene	766	41.7	"	833		92.0	24-124				
Benzo(a)anthracene	843	41.7	"	833		101	25-134				
Benzo(a)pyrene	963	41.7	"	833		116	29-144				
Benzo(b)fluoranthene	889	41.7	"	833		107	20-151				
Benzo(g,h,i)perylene	761	41.7	"	833		91.3	10-153				
Benzo(k)fluoranthene	874	41.7	"	833		105	10-148				
Chrysene	833	41.7	"	833		100	24-116				
Dibenzo(a,h)anthracene	805	41.7	"	833		96.6	17-147				
Fluoranthene	928	41.7	"	833		111	36-125				
Fluorene	793	41.7	"	833		95.1	16-130				
Indeno(1,2,3-cd)pyrene	778	41.7	"	833		93.4	10-155				
Naphthalene	828	41.7	"	833		99.4	20-121				
Phenanthrene	802	41.7	"	833		96.2	24-123				
Pyrene	768	41.7	"	833		92.2	24-132				
Surrogate: Nitrobenzene-d5	973		"	833		117	22-108				
Surrogate: 2-Fluorobiphenyl	784		"	833		94.1	21-113				
Surrogate: Terphenyl-d14	924		"	833		111	24-116				



Miscellaneous Physical 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
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Batch BH81294 - % Solids Prep

Duplicate (BH81294-DUP1)	*Source sample: 18H0955-01 (SB-01 13-15)							Prepared: 08/25/2018 Analyzed: 08/27/2018			
% Solids	96.7	0.100	%		96.5				0.181	20	



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18H0955-01	SB-01 13-15	40mL Vial with Stir Bar-Cool 4° C
18H0955-02	SB-02 13-15	40mL Vial with Stir Bar-Cool 4° C



Sample and Data Qualifiers Relating to This Work Order

- S-08 The recovery of this surrogate was outside of QC limits.
- QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- 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).

Definitions and Other Explanations

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

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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



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



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Field Chain-of-Custody Record

YORK Project No.
 18H0955

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: WCD Grad	Company:	Address:	Address:	Company:	Company:	CT RCP	Standard Excel EDB	RUSH - Next Day	
Address: 24 Park Ave Roshtkepsic, NY	Address:	Phone:	Phone:	QA Report	Standard	CT RCP DQ/DUE	EQUIS (Standard)	RUSH - Two Day	
Phone: 845-452-1658	Phone:	Contact: Tyler Goodnough	Contact: Tyler Goodnough	NY ASP A Package	Standard	NJDEP Reduced Deliverables	NYSDEC EQUIS	RUSH - Three Day	
Contact: Tyler Goodnough	Contact: Tyler Goodnough	E-mail: Tyler Goodnough	E-mail: Tyler Goodnough	NY ASP B Package	Standard	NJDKQP	NJDEP SRP HazSite	RUSH - Four Day	
E-mail:	E-mail:			Other:	Standard		Other:	Standard (5-7 Day)	X
<p>Matrix Codes</p> <p>S - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil ; Other</p>									
<p>Report / EDD Type (circle selections)</p> <p>Summary Report <input checked="" type="checkbox"/> Standard Excel EDB <input type="checkbox"/> QA Report <input type="checkbox"/> EQUIS (Standard) <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NYSDEC EQUIS <input type="checkbox"/> NY ASP B Package <input type="checkbox"/> NJDEP SRP HazSite <input type="checkbox"/> Other: <input type="checkbox"/></p>									
<p>YORK Reg. Comp.</p> <p>Compared to the following Regulation(s): (please fill in)</p>									
<p>Container Description</p> <p>1x VOA kit, 1x VOC kit</p>									
<p>Analysis Requested</p> <p>VOCs 8260, PAHS 8270</p>									
<p>Sample Identification</p> <p>SB-01 13-15 SB-02 13-15</p>									
<p>Matrix Codes</p> <p>S - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil ; Other</p>									
<p>Sample Matrix</p> <p>S S</p>									
<p>Samples From</p> <p>New York New Jersey Connecticut Pennsylvania Other</p>									
<p>Date/Time Sampled</p> <p>8/21/18 8/21/18</p>									
<p>Comments:</p>									
<p>Preservation: (check all that apply)</p> <p>HCl ___ MeOH ___ HNO₃ ___ H₂SO₄ ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___</p>									
<p>Special Instruction</p> <p>Field Filtered Lab to Filter</p>									
<p>Samples Relinquished by / Company</p> <p>8/21/18 12:50 pm 8/21/18 3:11</p>									
<p>Samples Received by / Company</p> <p>8/21/18 12:50 pm 8/21/18 16:37</p>									
<p>Temp. Received at Lab</p> <p>2.0 Degrees C</p>									



Technical Report

prepared for:

WCD Group - Poughkeepsie NY
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Tyler Goodnough

Report Date: 08/30/2018
Client Project ID: PQ18052
York Project (SDG) No.: 18H1121

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
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(203) 325-1371

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

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 08/30/2018
Client Project ID: PQ18052
York Project (SDG) No.: 18H1121

WCD Group - Poughkeepsie NY
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Tyler Goodnough

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 August 23, 2018 and listed below. The project was identified as your project: **PQ18052**.

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>
18H1121-01	SB-03 5-7	Soil	08/23/2018	08/23/2018
18H1121-02	SB-04 5-7	Soil	08/23/2018	08/23/2018
18H1121-03	SB-05 9.5-11.5	Soil	08/23/2018	08/23/2018

General Notes for York Project (SDG) No.: 18H1121

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: 08/30/2018





Sample Information

Client Sample ID: SB-03 5-7

York Sample ID: 18H1121-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H1121	PQ18052	Soil	August 23, 2018 3:00 pm	08/23/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/27/2018 08:00	08/27/2018 21:55	LL
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/27/2018 08:00	08/27/2018 21:55	LL
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
123-91-1	1,4-Dioxane	ND		ug/kg dry	65	130	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
78-93-3	2-Butanone	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
591-78-6	2-Hexanone	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL



Sample Information

Client Sample ID: SB-03 5-7

York Sample ID: 18H1121-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H1121

PQ18052

Soil

August 23, 2018 3:00 pm

08/23/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
67-64-1	Acetone	ND		ug/kg dry	6.5	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
107-02-8	Acrolein	ND		ug/kg dry	6.5	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
107-13-1	Acrylonitrile	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
71-43-2	Benzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
74-97-5	Bromochloromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
75-25-2	Bromoform	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
74-83-9	Bromomethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
75-15-0	Carbon disulfide	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
108-90-7	Chlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
75-00-3	Chloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
67-66-3	Chloroform	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
74-87-3	Chloromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
110-82-7	Cyclohexane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
74-95-3	Dibromomethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL



Sample Information

Client Sample ID: SB-03 5-7

York Sample ID: 18H1121-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H1121

PQ18052

Soil

August 23, 2018 3:00 pm

08/23/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
79-20-9	Methyl acetate	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
75-09-2	Methylene chloride	ND		ug/kg dry	6.5	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
95-47-6	o-Xylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.5	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
100-42-5	Styrene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
108-88-3	Toluene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
79-01-6	Trichloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 21:55	LL
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.8	20	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/27/2018 08:00	08/27/2018 21:55	LL
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.8 %	77-125								
2037-26-5	Surrogate: Toluene-d8	94.0 %	85-120								



Sample Information

Client Sample ID: SB-03 5-7

York Sample ID: 18H1121-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H1121

PQ18052

Soil

August 23, 2018 3:00 pm

08/23/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	105 %			76-130						

Semi-Volatiles, PAH Target List

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
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	50.1	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR
83-32-9	Acenaphthene	ND		ug/kg dry	50.1	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	50.1	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR
120-12-7	Anthracene	ND		ug/kg dry	50.1	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR
56-55-3	Benzo(a)anthracene	85.6	J	ug/kg dry	50.1	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR
50-32-8	Benzo(a)pyrene	122		ug/kg dry	50.1	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR
205-99-2	Benzo(b)fluoranthene	120		ug/kg dry	50.1	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR
191-24-2	Benzo(g,h,i)perylene	77.6	J	ug/kg dry	50.1	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR
207-08-9	Benzo(k)fluoranthene	114		ug/kg dry	50.1	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR
218-01-9	Chrysene	136		ug/kg dry	50.1	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	50.1	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR
206-44-0	Fluoranthene	314		ug/kg dry	50.1	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR
86-73-7	Fluorene	ND		ug/kg dry	50.1	100	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR
193-39-5	Indeno(1,2,3-cd)pyrene	65.6	J	ug/kg dry	50.1	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR
91-20-3	Naphthalene	ND		ug/kg dry	50.1	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR
85-01-8	Phenanthrene	192		ug/kg dry	50.1	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR
129-00-0	Pyrene	228		ug/kg dry	50.1	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:14	SR

Surrogate Recoveries

Result

Acceptance Range

4165-60-0	Surrogate: Nitrobenzene-d5	44.2 %	22-108
321-60-8	Surrogate: 2-Fluorobiphenyl	42.3 %	21-113



Sample Information

Client Sample ID: SB-03 5-7

York Sample ID: 18H1121-01

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 18H1121, PQ18052, Soil, August 23, 2018 3:00 pm, 08/23/2018

Semi-Volatiles, PAH Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 1718-51-0, Surrogate: Terphenyl-d14, 82.8 %, 24-116

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: solids, * % Solids, 83.1, %, 0.100, 1, SM 2540G, 08/25/2018 10:07, 08/27/2018 12:37, TAJ

Sample Information

Client Sample ID: SB-04 5-7

York Sample ID: 18H1121-02

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 18H1121, PQ18052, Soil, August 23, 2018 3:00 pm, 08/23/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Multiple rows for various organic compounds like 1,1,1,2-Tetrachloroethane, etc.



Sample Information

Client Sample ID: SB-04 5-7

York Sample ID: 18H1121-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H1121

PQ18052

Soil

August 23, 2018 3:00 pm

08/23/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 13 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include various chemical compounds like 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, etc.



Sample Information

Client Sample ID: SB-04 5-7

York Sample ID: 18H1121-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H1121

PQ18052

Soil

August 23, 2018 3:00 pm

08/23/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
74-87-3	Chloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
110-82-7	Cyclohexane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
74-95-3	Dibromomethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
79-20-9	Methyl acetate	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
75-09-2	Methylene chloride	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
100-42-5	Styrene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL



Sample Information

Client Sample ID: SB-04 5-7

York Sample ID: 18H1121-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H1121

PQ18052

Soil

August 23, 2018 3:00 pm

08/23/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
108-88-3	Toluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
79-01-6	Trichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:27	LL
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.6	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/27/2018 08:00	08/27/2018 22:27	LL
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	97.0 %			77-125						
2037-26-5	Surrogate: Toluene-d8	93.9 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	107 %			76-130						

Semi-Volatiles, PAH Target List

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
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	45.8	91.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:44	SR
83-32-9	Acenaphthene	ND		ug/kg dry	45.8	91.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:44	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	45.8	91.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:44	SR
120-12-7	Anthracene	46.1	J	ug/kg dry	45.8	91.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:44	SR
56-55-3	Benzo(a)anthracene	284		ug/kg dry	45.8	91.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:44	SR
50-32-8	Benzo(a)pyrene	316		ug/kg dry	45.8	91.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:44	SR
205-99-2	Benzo(b)fluoranthene	306		ug/kg dry	45.8	91.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 19:44	SR



Sample Information

Client Sample ID: SB-04 5-7

York Sample ID: 18H1121-02

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received

Semi-Volatiles, PAH Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

Main data table for Semi-Volatiles, PAH Target List with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table for Total Solids with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst

Sample Information

Client Sample ID: SB-05 9.5-11.5

York Sample ID: 18H1121-03

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB-05 9.5-11.5

York Sample ID: 18H1121-03

<u>York Project (SDG) No.</u> 18H1121	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 23, 2018 3:00 pm	<u>Date Received</u> 08/23/2018
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Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/27/2018 08:00	08/27/2018 22:59	LL
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/27/2018 08:00	08/27/2018 22:59	LL
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
123-91-1	1,4-Dioxane	ND		ug/kg dry	53	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
67-64-1	Acetone	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL



Sample Information

Client Sample ID: SB-05 9.5-11.5

York Sample ID: 18H1121-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H1121

PQ18052

Soil

August 23, 2018 3:00 pm

08/23/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
71-43-2	Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL



Sample Information

Client Sample ID: SB-05 9.5-11.5

York Sample ID: 18H1121-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18H1121

PQ18052

Soil

August 23, 2018 3:00 pm

08/23/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
75-09-2	Methylene chloride	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
100-42-5	Styrene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
108-88-3	Toluene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/27/2018 08:00	08/27/2018 22:59	LL
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.9	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/27/2018 08:00	08/27/2018 22:59	LL
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	101 %	77-125								
2037-26-5	Surrogate: Toluene-d8	92.5 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	104 %	76-130								



Sample Information

Client Sample ID: SB-05 9.5-11.5

York Sample ID: 18H1121-03

<u>York Project (SDG) No.</u> 18H1121	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 23, 2018 3:00 pm	<u>Date Received</u> 08/23/2018
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Semi-Volatiles, PAH Target List

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
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR
83-32-9	Acenaphthene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR
120-12-7	Anthracene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR
218-01-9	Chrysene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR
206-44-0	Fluoranthene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR
86-73-7	Fluorene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR
91-20-3	Naphthalene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR
85-01-8	Phenanthrene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR
129-00-0	Pyrene	ND		ug/kg dry	43.2	86.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/28/2018 15:52	08/29/2018 20:14	SR

Surrogate Recoveries

Result

Acceptance Range

4165-60-0	Surrogate: Nitrobenzene-d5	60.2 %
321-60-8	Surrogate: 2-Fluorobiphenyl	54.4 %
1718-51-0	Surrogate: Terphenyl-d14	62.9 %

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
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Sample Information

Client Sample ID: SB-05 9.5-11.5

York Sample ID: 18H1121-03

York Project (SDG) No. 18H1121

Client Project ID PQ18052

Matrix Soil

Collection Date/Time August 23, 2018 3:00 pm

Date Received 08/23/2018

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	96.3		%	0.100	1	SM 2540G	08/25/2018 10:07	08/27/2018 12:37	TAJ
							Certifications:	CTDOH		



Analytical Batch Summary

Batch ID: BH81294 **Preparation Method:** % Solids Prep **Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18H1121-01	SB-03 5-7	08/25/18
18H1121-02	SB-04 5-7	08/25/18
18H1121-03	SB-05 9.5-11.5	08/25/18

Batch ID: BH81362 **Preparation Method:** EPA 5035A **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
18H1121-01	SB-03 5-7	08/27/18
18H1121-02	SB-04 5-7	08/27/18
18H1121-03	SB-05 9.5-11.5	08/27/18
BH81362-BLK1	Blank	08/27/18
BH81362-BS1	LCS	08/27/18
BH81362-BSD1	LCS Dup	08/27/18

Batch ID: BH81412 **Preparation Method:** EPA 3550C **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
18H1121-01	SB-03 5-7	08/28/18
18H1121-02	SB-04 5-7	08/28/18
18H1121-03	SB-05 9.5-11.5	08/28/18
BH81412-BLK1	Blank	08/28/18
BH81412-BS1	LCS	08/28/18



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 BH81362 - EPA 5035A

Blank (BH81362-BLK1)

Prepared & Analyzed: 08/27/2018

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Cyclohexane	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								
Methylene chloride	ND	10	"								



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 BH81362 - EPA 5035A

Blank (BH81362-BLK1)

Prepared & Analyzed: 08/27/2018

n-Butylbenzene	ND	5.0	ug/kg wet								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butyl alcohol (TBA)	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								

Surrogate: 1,2-Dichloroethane-d4	48.7		ug/L	50.0		97.4	77-125				
Surrogate: Toluene-d8	47.6		"	50.0		95.1	85-120				
Surrogate: p-Bromofluorobenzene	54.1		"	50.0		108	76-130				

LCS (BH81362-BS1)

Prepared & Analyzed: 08/27/2018

1,1,1,2-Tetrachloroethane	46		ug/L	50.0		91.1	75-129				
1,1,1-Trichloroethane	51		"	50.0		102	71-137				
1,1,2,2-Tetrachloroethane	47		"	50.0		93.0	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53		"	50.0		107	58-146				
1,1,2-Trichloroethane	46		"	50.0		91.4	83-123				
1,1-Dichloroethane	54		"	50.0		107	75-130				
1,1-Dichloroethylene	50		"	50.0		100	64-137				
1,2,3-Trichlorobenzene	41		"	50.0		82.3	81-140				
1,2,3-Trichloropropane	44		"	50.0		88.9	81-126				
1,2,4-Trichlorobenzene	41		"	50.0		82.5	80-141				
1,2,4-Trimethylbenzene	41		"	50.0		82.9	84-125	Low Bias			
1,2-Dibromo-3-chloropropane	46		"	50.0		91.3	74-142				
1,2-Dibromoethane	48		"	50.0		95.8	86-123				
1,2-Dichlorobenzene	44		"	50.0		87.5	85-122				
1,2-Dichloroethane	53		"	50.0		106	71-133				
1,2-Dichloropropane	47		"	50.0		94.0	81-122				
1,3,5-Trimethylbenzene	44		"	50.0		87.3	82-126				
1,3-Dichlorobenzene	43		"	50.0		86.4	84-124				
1,4-Dichlorobenzene	43		"	50.0		85.9	84-124				
1,4-Dioxane	490		"	1050		46.4	10-228				
2-Butanone	51		"	50.0		102	58-147				
2-Hexanone	48		"	50.0		96.1	70-139				
4-Methyl-2-pentanone	50		"	50.0		99.4	72-132				
Acetone	41		"	50.0		81.4	36-155				
Acrolein	13		"	50.0		26.3	10-238				
Acrylonitrile	56		"	50.0		113	66-141				
Benzene	52		"	50.0		105	77-127				
Bromochloromethane	52		"	50.0		105	74-129				
Bromodichloromethane	48		"	50.0		95.1	81-124				



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 BH81362 - EPA 5035A

LCS (BH81362-BS1)

Prepared & Analyzed: 08/27/2018

Bromoform	40		ug/L	50.0		80.7	80-136			
Bromomethane	60		"	50.0		121	32-177			
Carbon disulfide	48		"	50.0		95.9	10-136			
Carbon tetrachloride	50		"	50.0		101	66-143			
Chlorobenzene	45		"	50.0		90.7	86-120			
Chloroethane	49		"	50.0		98.3	51-142			
Chloroform	53		"	50.0		106	76-131			
Chloromethane	51		"	50.0		102	49-132			
cis-1,2-Dichloroethylene	51		"	50.0		102	74-132			
cis-1,3-Dichloropropylene	46		"	50.0		93.0	81-129			
Cyclohexane	54		"	50.0		108	70-130			
Dibromochloromethane	45		"	50.0		90.2	10-200			
Dibromomethane	47		"	50.0		94.5	83-124			
Dichlorodifluoromethane	72		"	50.0		143	28-158			
Ethyl Benzene	47		"	50.0		94.0	84-125			
Hexachlorobutadiene	41		"	50.0		81.3	83-133	Low Bias		
Isopropylbenzene	44		"	50.0		87.2	81-127			
Methyl acetate	45		"	50.0		89.9	41-143			
Methyl tert-butyl ether (MTBE)	52		"	50.0		104	74-131			
Methylcyclohexane	47		"	50.0		93.1	70-130			
Methylene chloride	48		"	50.0		96.8	57-141			
n-Butylbenzene	45		"	50.0		89.5	80-130			
n-Propylbenzene	43		"	50.0		86.9	74-136			
o-Xylene	46		"	50.0		92.3	83-123			
p- & m- Xylenes	94		"	100		94.4	82-128			
p-Isopropyltoluene	46		"	50.0		91.7	85-125			
sec-Butylbenzene	47		"	50.0		93.1	83-125			
Styrene	47		"	50.0		93.1	86-126			
tert-Butyl alcohol (TBA)	1100		"	250		444	70-130	High Bias		
tert-Butylbenzene	44		"	50.0		87.8	80-127			
Tetrachloroethylene	41		"	50.0		82.4	80-129			
Toluene	46		"	50.0		92.0	85-121			
trans-1,2-Dichloroethylene	52		"	50.0		103	72-132			
trans-1,3-Dichloropropylene	47		"	50.0		94.0	78-132			
Trichloroethylene	47		"	50.0		94.5	84-123			
Trichlorofluoromethane	52		"	50.0		104	62-140			
Vinyl Chloride	54		"	50.0		108	52-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>51.1</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>77-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>46.6</i>		<i>"</i>	<i>50.0</i>		<i>93.1</i>	<i>85-120</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.5</i>	<i>76-130</i>			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source*		%REC Limits	Flag	RPD	
		Limit	Units		Result	%REC			RPD	Limit
Batch BH81362 - EPA 5035A										
LCS Dup (BH81362-BSD1)										
Prepared & Analyzed: 08/27/2018										
1,1,1,2-Tetrachloroethane	46		ug/L	50.0	91.0	75-129			0.0659	30
1,1,1-Trichloroethane	51		"	50.0	103	71-137			0.468	30
1,1,2,2-Tetrachloroethane	46		"	50.0	92.8	79-129			0.215	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54		"	50.0	108	58-146			1.28	30
1,1,2-Trichloroethane	46		"	50.0	92.9	83-123			1.63	30
1,1-Dichloroethane	54		"	50.0	107	75-130			0.0559	30
1,1-Dichloroethylene	51		"	50.0	102	64-137			2.09	30
1,2,3-Trichlorobenzene	41		"	50.0	82.7	81-140			0.582	30
1,2,3-Trichloropropane	44		"	50.0	88.0	81-126			1.04	30
1,2,4-Trichlorobenzene	41		"	50.0	82.1	80-141			0.510	30
1,2,4-Trimethylbenzene	42		"	50.0	84.7	84-125			2.10	30
1,2-Dibromo-3-chloropropane	46		"	50.0	91.4	74-142			0.0438	30
1,2-Dibromoethane	48		"	50.0	95.7	86-123			0.0836	30
1,2-Dichlorobenzene	44		"	50.0	88.5	85-122			1.23	30
1,2-Dichloroethane	53		"	50.0	107	71-133			0.563	30
1,2-Dichloropropane	48		"	50.0	95.9	81-122			1.94	30
1,3,5-Trimethylbenzene	43		"	50.0	86.9	82-126			0.436	30
1,3-Dichlorobenzene	44		"	50.0	87.9	84-124			1.74	30
1,4-Dichlorobenzene	44		"	50.0	87.4	84-124			1.68	30
1,4-Dioxane	450		"	1050	43.1	10-228			7.40	30
2-Butanone	55		"	50.0	111	58-147			8.03	30
2-Hexanone	48		"	50.0	95.2	70-139			0.941	30
4-Methyl-2-pentanone	50		"	50.0	101	72-132			1.38	30
Acetone	41		"	50.0	81.7	36-155			0.442	30
Acrolein	13		"	50.0	26.9	10-238			2.26	30
Acrylonitrile	53		"	50.0	105	66-141			6.70	30
Benzene	53		"	50.0	105	77-127			0.305	30
Bromochloromethane	54		"	50.0	107	74-129			2.09	30
Bromodichloromethane	48		"	50.0	95.7	81-124			0.650	30
Bromoform	42		"	50.0	83.0	80-136			2.76	30
Bromomethane	62		"	50.0	124	32-177			2.51	30
Carbon disulfide	49		"	50.0	97.7	10-136			1.88	30
Carbon tetrachloride	50		"	50.0	101	66-143			0.417	30
Chlorobenzene	46		"	50.0	92.2	86-120			1.73	30
Chloroethane	56		"	50.0	111	51-142			12.3	30
Chloroform	53		"	50.0	106	76-131			0.169	30
Chloromethane	53		"	50.0	106	49-132			3.65	30
cis-1,2-Dichloroethylene	52		"	50.0	104	74-132			2.39	30
cis-1,3-Dichloropropylene	47		"	50.0	93.5	81-129			0.558	30
Cyclohexane	54		"	50.0	108	70-130			0.612	30
Dibromochloromethane	46		"	50.0	92.3	10-200			2.28	30
Dibromomethane	46		"	50.0	93.0	83-124			1.56	30
Dichlorodifluoromethane	62		"	50.0	123	28-158			14.9	30
Ethyl Benzene	47		"	50.0	94.3	84-125			0.319	30
Hexachlorobutadiene	42		"	50.0	84.9	83-133			4.26	30
Isopropylbenzene	44		"	50.0	87.4	81-127			0.275	30
Methyl acetate	52		"	50.0	103	41-143			13.6	30
Methyl tert-butyl ether (MTBE)	53		"	50.0	105	74-131			0.840	30
Methylcyclohexane	47		"	50.0	94.5	70-130			1.47	30
Methylene chloride	49		"	50.0	98.8	57-141			2.02	30
n-Butylbenzene	46		"	50.0	91.1	80-130			1.73	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 BH81362 - EPA 5035A

LCS Dup (BH81362-BSD1)

Prepared & Analyzed: 08/27/2018

n-Propylbenzene	44		ug/L	50.0		88.0	74-136		1.21	30	
o-Xylene	46		"	50.0		92.8	83-123		0.540	30	
p- & m- Xylenes	95		"	100		94.7	82-128		0.317	30	
p-Isopropyltoluene	46		"	50.0		92.6	85-125		1.04	30	
sec-Butylbenzene	47		"	50.0		94.4	83-125		1.32	30	
Styrene	47		"	50.0		93.8	86-126		0.728	30	
tert-Butyl alcohol (TBA)	1100		"	250		435	70-130	High Bias	2.04	30	
tert-Butylbenzene	45		"	50.0		89.3	80-127		1.72	30	
Tetrachloroethylene	42		"	50.0		83.4	80-129		1.21	30	
Toluene	46		"	50.0		92.0	85-121		0.0870	30	
trans-1,2-Dichloroethylene	52		"	50.0		104	72-132		0.579	30	
trans-1,3-Dichloropropylene	48		"	50.0		95.2	78-132		1.25	30	
Trichloroethylene	48		"	50.0		95.5	84-123		0.990	30	
Trichlorofluoromethane	56		"	50.0		113	62-140		8.05	30	
Vinyl Chloride	55		"	50.0		110	52-130		1.93	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>51.0</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>46.0</i>		<i>"</i>	<i>50.0</i>		<i>92.0</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.1</i>		<i>"</i>	<i>50.0</i>		<i>98.2</i>	<i>76-130</i>				



Semivolatile 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 BH81412 - EPA 3550C

Blank (BH81412-BLK1)

Prepared: 08/28/2018 Analyzed: 08/29/2018

2-Methylnaphthalene	ND	41.7	ug/kg wet								
Acenaphthene	ND	41.7	"								
Acenaphthylene	ND	41.7	"								
Anthracene	ND	41.7	"								
Benzo(a)anthracene	ND	41.7	"								
Benzo(a)pyrene	ND	41.7	"								
Benzo(b)fluoranthene	ND	41.7	"								
Benzo(g,h,i)perylene	ND	41.7	"								
Benzo(k)fluoranthene	ND	41.7	"								
Chrysene	ND	41.7	"								
Dibenzo(a,h)anthracene	ND	41.7	"								
Fluoranthene	ND	41.7	"								
Fluorene	ND	41.7	"								
Indeno(1,2,3-cd)pyrene	ND	41.7	"								
Naphthalene	ND	41.7	"								
Phenanthrene	ND	41.7	"								
Pyrene	ND	41.7	"								
Surrogate: Nitrobenzene-d5	873		"	833		105		22-108			
Surrogate: 2-Fluorobiphenyl	758		"	833		91.0		21-113			
Surrogate: Terphenyl-d14	1330		"	833		160		24-116			

LCS (BH81412-BS1)

Prepared: 08/28/2018 Analyzed: 08/29/2018

2-Methylnaphthalene	590	41.7	ug/kg wet	833		70.8		16-127			
Acenaphthene	536	41.7	"	833		64.3		17-124			
Acenaphthylene	464	41.7	"	833		55.7		16-124			
Anthracene	581	41.7	"	833		69.8		24-124			
Benzo(a)anthracene	577	41.7	"	833		69.2		25-134			
Benzo(a)pyrene	652	41.7	"	833		78.2		29-144			
Benzo(b)fluoranthene	590	41.7	"	833		70.8		20-151			
Benzo(g,h,i)perylene	575	41.7	"	833		69.0		10-153			
Benzo(k)fluoranthene	623	41.7	"	833		74.7		10-148			
Chrysene	578	41.7	"	833		69.3		24-116			
Dibenzo(a,h)anthracene	615	41.7	"	833		73.8		17-147			
Fluoranthene	639	41.7	"	833		76.7		36-125			
Fluorene	566	41.7	"	833		67.9		16-130			
Indeno(1,2,3-cd)pyrene	598	41.7	"	833		71.8		10-155			
Naphthalene	578	41.7	"	833		69.3		20-121			
Phenanthrene	603	41.7	"	833		72.4		24-123			
Pyrene	722	41.7	"	833		86.7		24-132			
Surrogate: Nitrobenzene-d5	682		"	833		81.8		22-108			
Surrogate: 2-Fluorobiphenyl	623		"	833		74.8		21-113			
Surrogate: Terphenyl-d14	995		"	833		119		24-116			



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18H1121-01	SB-03 5-7	40mL Vial with Stir Bar-Cool 4° C
18H1121-02	SB-04 5-7	40mL Vial with Stir Bar-Cool 4° C
18H1121-03	SB-05 9.5-11.5	40mL Vial with Stir Bar-Cool 4° C



Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
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).

Definitions and Other Explanations

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

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.



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

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



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Field Chain-of-Custody Record

YORK Project No.
18H1121

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:
Company: WCD Group	Company:	YOUR PROJECT NUMBER PA18052
Address: 24 Davis Avenue Roughneck Rd, NY	Address:	YOUR PROJECT NAME PA18052.20
Phone: 845-452-1658	Phone:	YOUR PO#:
Contact: Tyler Gachwajz	Contact: Brenda Wells	
E-mail:	E-mail:	

MATRIX CODES	SAMPLES FROM	REPORT / EDD TYPE (circle selections)	YORK REG. COMP.
S - soil / solid	<input checked="" type="checkbox"/> New York	<input checked="" type="checkbox"/> Summary Report <input type="checkbox"/> QA Report <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B Package	YORK Reg. Comp. Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey	<input type="checkbox"/> Standard Excel EDD	
DW - drinking water	Connecticut	<input type="checkbox"/> EQUIS (Standard)	
WW - wastewater	Pennsylvania	<input type="checkbox"/> NYSDEC EQUIS	
O - Oil ; Other	Other	<input type="checkbox"/> NUDEP SRP HazSite	
Analysis Requested VOC 8260, PAHS 8270			

SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	CONTAINER DESCRIPTION
SB-03 S-7	S	8/23/18	1x VOAKIT, 1x 8260
SB-04 S-7 S-7			
SB-05 9.5-11.5			

COMMENTS:	PRESERVATION: (check all that apply)	SPECIAL INSTRUCTION	FIELD FILTERED LAB TO FILTER			
<p>Samples Relinquished by / Company</p> [Signature] 8/23/18 <p>Samples Relinquished by / Company</p> [Signature] 8/23/18 <p>Samples Relinquished by / Company</p> [Signature] 8/23/18	HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___	Date/Time: 8/23/18 15:00 Date/Time: Date/Time:	Date/Time: 8/23/18 15:00 Date/Time: Date/Time:			
				<p>Samples Relinquished by / Company</p> [Signature] 8/23/18 10PM	Date/Time: 8/23/18 10PM Date/Time: Date/Time:	Date/Time: 8/23/18 15:00 Date/Time: Date/Time:
				<p>Samples Relinquished by / Company</p> [Signature] 8/23/18 Date/Time: 8/23/18 15:00	Date/Time: 8/23/18 15:00 Date/Time: Date/Time:	Date/Time: 8/23/18 15:00 Date/Time: Date/Time:
<p>Samples Relinquished by / Company</p> [Signature] 8/23/18 Date/Time: 8/23/18 15:00	Date/Time: 8/23/18 15:00 Date/Time: Date/Time:	Date/Time: 8/23/18 15:00 Date/Time: Date/Time:	Date/Time: 8/23/18 15:00 Date/Time: Date/Time:			