

APPENDIX K

Raw Analytical Laboratory Data (CD)

JOB: L1708256 REPORT STYLE: Data Usability Report
0010: Alpha Analytical Report Cover Page - OK
0015: Sample Cross Reference Summary - OK
0060: Case Narrative - OK
0100: Volatiles Cover Page - OK
0110: Volatiles Sample Results - OK
0120: Volatiles Method Blank Report - OK
0130: Volatiles LCS Report - OK
0180: Semivolatiles Cover Page - OK
0190: Semivolatiles Sample Results - OK
0200: Semivolatiles Method Blank Report - OK
0210: Semivolatiles LCS Report - OK
0290: Petroleum Cover Page - OK
0300: Petroleum Sample Results - OK
0310: Petroleum Method Blank Report - OK
0320: Petroleum LCS Report - OK
0340: Petroleum Matrix Spike Report - OK
0350: Petroleum Duplicate Report - OK
0700: PCBs Cover Page - OK
0710: PCBs Sample Results - OK
0720: PCBs Method Blank Report - OK
0730: PCBs LCS Report - OK
0900: Pesticides Cover Page - OK
0910: Pesticides Sample Results - OK
0920: Pesticides Method Blank Report - OK
0930: Pesticides LCS Report - OK
1005: Metals Sample Results - OK
1010: Metals Method Blank Report - OK
1020: Metals LCS Report - OK
1180: Inorganics Cover Page - OK
1190: Ignitability Results - OK
1200: Wet Chemistry Sample Results - OK
1210: Wet Chemistry Method Blank Report - OK
1220: Wet Chemistry LCS Report - OK
1250: Wet Chemistry Duplicate Report - OK
5100: Sample Receipt & Container Information Report - OK
5200: Glossary - OK
5400: References - OK



ANALYTICAL REPORT

Lab Number:	L1708256
Client:	AWT Environmental Services, Inc. P.O. Box 128 Sayreville, NJ 08871
ATTN:	David Anagnos
Phone:	(732) 613-1660
Project Name:	KINGS PLAZA - AREA A
Project Number:	15026
Report Date:	03/24/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1708256-01	A-1	SOIL	BROOKLYN, NY	03/17/17 13:15	03/17/17
L1708256-02	A-2	SOIL	BROOKLYN, NY	03/17/17 13:15	03/17/17
L1708256-03	A-3	SOIL	BROOKLYN, NY	03/17/17 13:15	03/17/17
L1708256-04	A-4	SOIL	BROOKLYN, NY	03/17/17 13:15	03/17/17
L1708256-05	A-5	SOIL	BROOKLYN, NY	03/17/17 13:15	03/17/17
L1708256-06	A-COMP	SOIL	BROOKLYN, NY	03/17/17 13:15	03/17/17

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

Case Narrative (continued)

Report Submission

This is a partial report. A final report will be issued as soon as the results of all requested analyses become available.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L1708256-01: The surrogate recoveries are outside the acceptance criteria for 4-bromofluorobenzene (148%); however, the sample was not re-analyzed due to coelution with obvious interferences. A copy of the chromatogram is included as an attachment to this report.

The WG986909-5 Method Blank, associated with L1708256-01, has concentrations above the reporting limits for chloromethane and bromomethane. Since the sample was non-detect to the RL for these target analytes, no further actions were taken. The results of the original analysis are reported.

Semivolatile Organics

WG986432-2/-3: One or more compounds failed to meet the recovery and/or RPD limits. Please refer to the QC section of the report for specific details.

NJ EPH

WG987699: The Matrix Spike and Laboratory Duplicate did not require fractionation, and therefore are not reported for this analysis.

Pesticides

L1708256-06: One or more dual column RPDs are above the acceptance criteria. Please refer to the sample results and/or QC section of the report for specific details.

Metals

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

Case Narrative (continued)

L1708256-06: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Cristin Walker

Title: Technical Director/Representative

Date: 03/24/17

ORGANICS

VOLATILES

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-01
 Client ID: A-1
 Sample Location: BROOKLYN, NY
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/20/17 19:51
 Analyst: MV
 Percent Solids: 90%

Date Collected: 03/17/17 13:15
 Date Received: 03/17/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0033	0.00043	1
1,4-Dioxane	ND		mg/kg	0.044	0.016	1
1,2-Dibromoethane	ND		mg/kg	0.0033	0.00022	1
Methylene chloride	ND		mg/kg	0.0054	0.0018	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00029	1
Chloroform	ND		mg/kg	0.0016	0.00040	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00038	1
1,2-Dichloropropane	ND		mg/kg	0.0038	0.00025	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00019	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00034	1
Tetrachloroethene	0.0024		mg/kg	0.0011	0.00033	1
Chlorobenzene	ND		mg/kg	0.0011	0.00038	1
Trichlorofluoromethane	ND		mg/kg	0.0054	0.00045	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00027	1
1,1,1-Trichloroethane	ND		mg/kg	0.0011	0.00038	1
Bromodichloromethane	ND		mg/kg	0.0011	0.00034	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00023	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00025	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0011	0.00023	1
Bromoform	ND		mg/kg	0.0044	0.00026	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0011	0.00032	1
Benzene	0.00029	J	mg/kg	0.0011	0.00021	1
Toluene	ND		mg/kg	0.0016	0.00021	1
Ethylbenzene	ND		mg/kg	0.0011	0.00018	1
Chloromethane	ND		mg/kg	0.0054	0.00047	1
Bromomethane	ND		mg/kg	0.0022	0.00037	1
Vinyl chloride	ND		mg/kg	0.0022	0.00034	1
Chloroethane	ND		mg/kg	0.0022	0.00034	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00040	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00026	1

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-01

Date Collected: 03/17/17 13:15

Client ID: A-1

Date Received: 03/17/17

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.00094	J	mg/kg	0.0011	0.00033	1
1,2-Dichlorobenzene	ND		mg/kg	0.0054	0.00020	1
1,3-Dichlorobenzene	ND		mg/kg	0.0054	0.00024	1
1,4-Dichlorobenzene	ND		mg/kg	0.0054	0.00020	1
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00017	1
p/m-Xylene	ND		mg/kg	0.0022	0.00038	1
o-Xylene	ND		mg/kg	0.0022	0.00037	1
Xylene (Total)	ND		mg/kg	0.0022	0.00037	1
cis-1,2-Dichloroethene	0.0022		mg/kg	0.0011	0.00037	1
1,2-Dichloroethene (total)	0.0022		mg/kg	0.0011	0.00026	1
Styrene	ND		mg/kg	0.0022	0.00044	1
Dichlorodifluoromethane	ND		mg/kg	0.011	0.00054	1
Acetone	0.036	J	mg/kg	0.039	0.0025	1
Carbon disulfide	0.0018	J	mg/kg	0.011	0.0012	1
2-Butanone	0.0054	J	mg/kg	0.011	0.00075	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.00026	1
2-Hexanone	ND		mg/kg	0.011	0.00072	1
Bromochloromethane	ND		mg/kg	0.0054	0.00039	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00021	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0054	0.00027	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0054	0.00023	1
Methyl Acetate	ND		mg/kg	0.0044	0.00050	1
Cyclohexane	ND		mg/kg	0.022	0.00047	1
Methyl cyclohexane	0.00070	J	mg/kg	0.0044	0.00026	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.022	0.00056	1

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-01

Date Collected: 03/17/17 13:15

Client ID: A-1

Date Received: 03/17/17

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	0.525	J	mg/kg	1
Unknown Benzene	0.017	J	mg/kg	1
Cyclohexane, 1-ethyl-2-methyl-	0.023	NJ	mg/kg	1
Unknown	0.018	J	mg/kg	1
Unknown	0.042	J	mg/kg	1
Unknown	0.025	J	mg/kg	1
Unknown	0.035	J	mg/kg	1
Unknown	0.054	J	mg/kg	1
Unknown Cyclohexane	0.035	J	mg/kg	1
Adamantane	0.033	NJ	mg/kg	1
Unknown	0.021	J	mg/kg	1
Unknown Aromatic	0.062	J	mg/kg	1
Unknown Benzene	0.027	J	mg/kg	1
Unknown	0.021	J	mg/kg	1
Unknown Naphthalene	0.062	J	mg/kg	1
Unknown Naphthalene	0.051	J	mg/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	148	Q	70-130
Dibromofluoromethane	97		70-130

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-06
 Client ID: A-COMP
 Sample Location: BROOKLYN, NY
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/22/17 09:04
 Analyst: MM
 Percent Solids: 91%
 TCLP/SPLP Ext. Date: 03/21/17 14:20

Date Collected: 03/17/17 13:15
 Date Received: 03/17/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	1.6	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	82		70-130
dibromofluoromethane	96		70-130

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/20/17 13:30
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG986909-5					
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.00040
1,4-Dioxane	ND		mg/kg	0.040	0.014
1,2-Dibromoethane	ND		mg/kg	0.0030	0.00020
Methylene chloride	0.0020	J	mg/kg	0.0050	0.0016
1,1-Dichloroethane	ND		mg/kg	0.0015	0.00027
Chloroform	ND		mg/kg	0.0015	0.00037
Carbon tetrachloride	ND		mg/kg	0.0010	0.00034
1,2-Dichloropropane	ND		mg/kg	0.0035	0.00023
Dibromochloromethane	ND		mg/kg	0.0010	0.00018
1,1,2-Trichloroethane	ND		mg/kg	0.0015	0.00031
2-Chloroethylvinyl ether	ND		mg/kg	0.020	0.00062
Tetrachloroethene	ND		mg/kg	0.0010	0.00030
Chlorobenzene	ND		mg/kg	0.0010	0.00035
Trichlorofluoromethane	ND		mg/kg	0.0050	0.00042
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00025
1,1,1-Trichloroethane	ND		mg/kg	0.0010	0.00035
Bromodichloromethane	ND		mg/kg	0.0010	0.00031
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00021
cis-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00023
1,3-Dichloropropene, Total	ND		mg/kg	0.0010	0.00021
1,1-Dichloropropene	ND		mg/kg	0.0050	0.00033
Bromoform	ND		mg/kg	0.0040	0.00024
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00030
Benzene	ND		mg/kg	0.0010	0.00019
Toluene	0.00021	J	mg/kg	0.0015	0.00020
Ethylbenzene	ND		mg/kg	0.0010	0.00017
Chloromethane	0.010		mg/kg	0.0050	0.00044
Bromomethane	0.012		mg/kg	0.0020	0.00034
Vinyl chloride	ND		mg/kg	0.0020	0.00032

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/20/17 13:30
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG986909-5					
Chloroethane	ND		mg/kg	0.0020	0.00032
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00037
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00024
Trichloroethene	ND		mg/kg	0.0010	0.00030
1,2-Dichlorobenzene	ND		mg/kg	0.0050	0.00018
1,3-Dichlorobenzene	ND		mg/kg	0.0050	0.00022
1,4-Dichlorobenzene	ND		mg/kg	0.0050	0.00018
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00015
p/m-Xylene	ND		mg/kg	0.0020	0.00035
o-Xylene	ND		mg/kg	0.0020	0.00034
Xylene (Total)	ND		mg/kg	0.0020	0.00034
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00034
1,2-Dichloroethene (total)	ND		mg/kg	0.0010	0.00024
Dibromomethane	ND		mg/kg	0.010	0.00024
1,4-Dichlorobutane	ND		mg/kg	0.010	0.00016
1,2,3-Trichloropropane	ND		mg/kg	0.010	0.00018
Styrene	ND		mg/kg	0.0020	0.00040
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00050
Acetone	0.0046	J	mg/kg	0.036	0.0023
Carbon disulfide	ND		mg/kg	0.010	0.0011
2-Butanone	ND		mg/kg	0.010	0.00069
Vinyl acetate	ND		mg/kg	0.010	0.00015
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.00024
2-Hexanone	ND		mg/kg	0.010	0.00067
Ethyl methacrylate	ND		mg/kg	0.010	0.00017
Acrolein	ND		mg/kg	0.025	0.0080
Acrylonitrile	ND		mg/kg	0.0040	0.00051
Bromochloromethane	ND		mg/kg	0.0050	0.00036
Tetrahydrofuran	ND		mg/kg	0.020	0.0010

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/20/17 13:30
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG986909-5					
2,2-Dichloropropane	ND		mg/kg	0.0050	0.00045
1,3-Dichloropropane	ND		mg/kg	0.0050	0.00018
1,1,1,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00032
Bromobenzene	ND		mg/kg	0.0050	0.00022
n-Butylbenzene	ND		mg/kg	0.0010	0.00023
sec-Butylbenzene	ND		mg/kg	0.0010	0.00022
tert-Butylbenzene	ND		mg/kg	0.0050	0.00025
o-Chlorotoluene	ND		mg/kg	0.0050	0.00022
p-Chlorotoluene	ND		mg/kg	0.0050	0.00018
Hexachlorobutadiene	ND		mg/kg	0.0050	0.00035
Isopropylbenzene	ND		mg/kg	0.0010	0.00019
p-Isopropyltoluene	ND		mg/kg	0.0010	0.00020
Naphthalene	0.00037	J	mg/kg	0.0050	0.00014
n-Propylbenzene	ND		mg/kg	0.0010	0.00022
1,2,3-Trichlorobenzene	ND		mg/kg	0.0050	0.00025
1,2,4-Trichlorobenzene	ND		mg/kg	0.0050	0.00022
1,3,5-Trimethylbenzene	ND		mg/kg	0.0050	0.00016
1,2,4-Trimethylbenzene	ND		mg/kg	0.0050	0.00019
trans-1,4-Dichloro-2-butene	ND		mg/kg	0.0050	0.00039
Ethyl ether	ND		mg/kg	0.0050	0.00026
Methyl Acetate	ND		mg/kg	0.0040	0.00046
Ethyl Acetate	ND		mg/kg	0.020	0.0020
Isopropyl Ether	ND		mg/kg	0.0040	0.00028
Cyclohexane	ND		mg/kg	0.020	0.00043
tert-Butyl Alcohol	ND		mg/kg	0.10	0.0029
Ethyl-Tert-Butyl-Ether	ND		mg/kg	0.0040	0.00018
Tertiary-Amyl Methyl Ether	ND		mg/kg	0.0040	0.00023
Methyl cyclohexane	ND		mg/kg	0.0040	0.00024
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.020	0.00051

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/20/17 13:30
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG986909-5					
1,2,4,5-Tetramethylbenzene	ND		mg/kg	0.0040	0.00016
1,4-Diethylbenzene	ND		mg/kg	0.0040	0.0040
4-Ethyltoluene	ND		mg/kg	0.0040	0.00023

Tentatively Identified Compounds

Total TIC Compounds	0.008	J	mg/kg
Pentane, 2-methyl-	0.003	NJ	mg/kg
Unknown	0.003	J	mg/kg
Methane, iodo-	0.002	NJ	mg/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	89		70-130

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 03/22/17 07:58

Analyst: MM

TCLP/SPLP Extraction Date: 03/21/17 14:20

Extraction Date: 03/21/17 14:20

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 06 Batch: WG987256-5					
Chloroform	ND		ug/l	7.5	1.6
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	90		70-130
dibromofluoromethane	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG986909-3 WG986909-4								
1,2-Dibromo-3-chloropropane	97		105		40-160	8		30
1,4-Dioxane	102		117		40-160	14		30
1,2-Dibromoethane	108		112		70-130	4		30
Methylene chloride	98		100		70-130	2		30
1,1-Dichloroethane	111		110		70-130	1		30
Chloroform	109		109		70-130	0		30
Carbon tetrachloride	122		122		70-130	0		30
1,2-Dichloropropane	108		109		70-130	1		30
Dibromochloromethane	113		115		70-130	2		30
1,1,2-Trichloroethane	108		110		70-130	2		30
2-Chloroethylvinyl ether	123		135		40-160	9		30
Tetrachloroethene	119		117		70-130	2		30
Chlorobenzene	111		112		70-130	1		30
Trichlorofluoromethane	126		122		40-160	3		30
1,2-Dichloroethane	106		109		70-130	3		30
1,1,1-Trichloroethane	117		117		70-130	0		30
Bromodichloromethane	111		111		70-130	0		30
trans-1,3-Dichloropropene	114		116		70-130	2		30
cis-1,3-Dichloropropene	111		112		40-160	1		30
1,1-Dichloropropene	116		117		70-130	1		30
Bromoform	102		105		40-160	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG986909-3 WG986909-4								
1,1,2,2-Tetrachloroethane	106		112		40-160	6		30
Benzene	110		110		70-130	0		30
Toluene	111		110		70-130	1		30
Ethylbenzene	113		112		70-130	1		30
Chloromethane	102		104		40-160	2		30
Bromomethane	125		119		40-160	5		30
Vinyl chloride	116		115		70-130	1		30
Chloroethane	119		115		40-160	3		30
1,1-Dichloroethene	117		118		70-130	1		30
trans-1,2-Dichloroethene	113		112		70-130	1		30
Trichloroethene	112		113		70-130	1		30
1,2-Dichlorobenzene	108		108		70-130	0		30
1,3-Dichlorobenzene	112		111		70-130	1		30
1,4-Dichlorobenzene	111		110		70-130	1		30
Methyl tert butyl ether	104		106		70-130	2		30
p/m-Xylene	114		114		70-130	0		30
o-Xylene	112		112		70-130	0		30
cis-1,2-Dichloroethene	111		112		70-130	1		30
Dibromomethane	107		108		70-130	1		30
1,4-Dichlorobutane	105		108		70-130	3		30
1,2,3-Trichloropropane	106		111		70-130	5		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG986909-3 WG986909-4								
Styrene	112		112		40-160	0		30
Dichlorodifluoromethane	124		124		40-160	0		30
Acetone	101		108		40-160	7		30
Carbon disulfide	113		117		40-160	3		30
2-Butanone	91		100		40-160	9		30
Vinyl acetate	106		111		70-130	5		30
4-Methyl-2-pentanone	104		111		40-160	7		30
2-Hexanone	103		110		40-160	7		30
Ethyl methacrylate	108		112		70-130	4		30
Acrolein	91		94		40-160	3		30
Acrylonitrile	100		106		70-130	6		30
Bromochloromethane	112		113		70-130	1		30
Tetrahydrofuran	101		105		70-130	4		30
2,2-Dichloropropane	120		119		40-160	1		30
1,3-Dichloropropane	109		110		70-130	1		30
1,1,1,2-Tetrachloroethane	116		116		70-130	0		30
Bromobenzene	110		110		70-130	0		30
n-Butylbenzene	118		118		70-130	0		30
sec-Butylbenzene	117		116		70-130	1		30
tert-Butylbenzene	115		114		70-130	1		30
o-Chlorotoluene	111		109		70-130	2		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG986909-3 WG986909-4								
p-Chlorotoluene	112		112		70-130	0		30
Hexachlorobutadiene	122		120		70-130	2		30
Isopropylbenzene	116		114		70-130	2		30
p-Isopropyltoluene	117		116		70-130	1		30
Naphthalene	105		110		40-160	5		30
n-Propylbenzene	115		114		70-130	1		30
1,2,3-Trichlorobenzene	112		114		70-130	2		30
1,2,4-Trichlorobenzene	116		116		70-130	0		30
1,3,5-Trimethylbenzene	114		113		70-130	1		30
1,2,4-Trimethylbenzene	113		112		70-130	1		30
trans-1,4-Dichloro-2-butene	110		117		70-130	6		30
Ethyl ether	104		108		70-130	4		30
Methyl Acetate	94		102		70-130	8		30
Ethyl Acetate	96		104		70-130	8		30
Isopropyl Ether	100		102		70-130	2		30
Cyclohexane	113		114		70-130	1		30
tert-Butyl Alcohol	90		93		40-160	3		30
Ethyl-Tert-Butyl-Ether	101		102		70-130	1		30
Tertiary-Amyl Methyl Ether	99		102		70-130	3		30
Methyl cyclohexane	114		116		70-130	2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	114		118		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG986909-3 WG986909-4								
1,2,4,5-Tetramethylbenzene	110		109		70-130	1		30
1,4-Diethylbenzene	112		112		70-130	0		30
4-Ethyltoluene	110		109		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		98		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	98		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 06 Batch: WG987256-3 WG987256-4								
Chloroform	98		100		70-130	2		20
Carbon tetrachloride	95		99		63-132	4		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	100		100		75-130	0		25
1,2-Dichloroethane	100		100		70-130	0		20
Benzene	100		110		70-130	10		25
Vinyl chloride	110		110		55-140	0		20
1,1-Dichloroethene	100		110		61-145	10		25
Trichloroethene	100		100		70-130	0		25
1,4-Dichlorobenzene	100		99		70-130	1		20
2-Butanone	97		110		63-138	13		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		95		70-130
Toluene-d8	104		100		70-130
4-Bromofluorobenzene	101		101		70-130
dibromofluoromethane	95		99		70-130

SEMIVOLATILES

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-06
Client ID: A-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/20/17 04:59
Analyst: RC
Percent Solids: 91%

Date Collected: 03/17/17 13:15
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	0.24		mg/kg	0.14	0.015	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.017	1
Hexachlorobenzene	ND		mg/kg	0.052	0.017	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.065	0.022	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.14	0.046	1
2,4-Dinitrotoluene	ND		mg/kg	0.090	0.030	1
2,6-Dinitrotoluene	ND		mg/kg	0.071	0.024	1
Fluoranthene	0.53		mg/kg	0.11	0.021	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.015	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.021	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.19	0.017	1
Hexachlorobutadiene	ND		mg/kg	0.067	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.52	0.11	1
Hexachloroethane	ND		mg/kg	0.088	0.029	1
Isophorone	ND		mg/kg	0.060	0.020	1
Naphthalene	0.53		mg/kg	0.18	0.022	1
Nitrobenzene	ND		mg/kg	0.080	0.027	1
NDPA/DPA	ND		mg/kg	0.044	0.015	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.045	0.015	1
Bis(2-ethylhexyl)phthalate	8.3	E	mg/kg	0.18	0.019	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.024	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.016	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.056	1
Diethyl phthalate	ND		mg/kg	0.18	0.016	1
Dimethyl phthalate	ND		mg/kg	0.18	0.017	1
Benzo(a)anthracene	0.19		mg/kg	0.060	0.020	1
Benzo(a)pyrene	0.17		mg/kg	0.13	0.044	1
Benzo(b)fluoranthene	0.22		mg/kg	0.045	0.015	1
Benzo(k)fluoranthene	0.066		mg/kg	0.038	0.013	1
Chrysene	0.21		mg/kg	0.11	0.018	1

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-06

Date Collected: 03/17/17 13:15

Client ID: A-COMP

Date Received: 03/17/17

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthylene	ND		mg/kg	0.14	0.020	1
Anthracene	0.17		mg/kg	0.11	0.016	1
Benzo(ghi)perylene	0.11	J	mg/kg	0.14	0.021	1
Fluorene	0.28		mg/kg	0.18	0.017	1
Phenanthrene	0.89		mg/kg	0.11	0.013	1
Dibenzo(a,h)anthracene	0.033	J	mg/kg	0.063	0.021	1
Indeno(1,2,3-cd)pyrene	0.11		mg/kg	0.076	0.025	1
Pyrene	0.48		mg/kg	0.11	0.016	1
4-Chloroaniline	ND		mg/kg	0.18	0.021	1
2-Nitroaniline	ND		mg/kg	0.18	0.033	1
3-Nitroaniline	ND		mg/kg	0.18	0.034	1
4-Nitroaniline	ND		mg/kg	0.18	0.074	1
Dibenzofuran	ND		mg/kg	0.18	0.016	1
2-Methylnaphthalene	1.4		mg/kg	0.22	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.10	0.034	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.027	1
2-Chlorophenol	ND		mg/kg	0.059	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.086	0.029	1
2,4-Dimethylphenol	ND		mg/kg	0.17	0.057	1
2-Nitrophenol	ND		mg/kg	0.39	0.030	1
2,4-Dinitrophenol	ND		mg/kg	0.26	0.084	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.26	0.086	1
Pentachlorophenol	ND		mg/kg	0.12	0.040	1
Phenol	ND		mg/kg	0.18	0.021	1
2-Methylphenol	ND		mg/kg	0.18	0.028	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.26	0.026	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.034	1
Carbazole	ND		mg/kg	0.18	0.011	1
4-Nitrophenol	ND		mg/kg	0.25	0.050	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.020	1
Benzaldehyde	ND		mg/kg	0.24	0.028	1
Caprolactam	ND		mg/kg	0.18	0.038	1
Acetophenone	ND		mg/kg	0.18	0.019	1
Biphenyl	ND		mg/kg	0.41	0.042	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.019	1
Atrazine	ND		mg/kg	0.14	0.063	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.036	1

Project Name: KINGS PLAZA - AREA A**Lab Number:** L1708256**Project Number:** 15026**Report Date:** 03/24/17**SAMPLE RESULTS****Lab ID:** L1708256-06**Date Collected:** 03/17/17 13:15**Client ID:** A-COMP**Date Received:** 03/17/17**Sample Location:** BROOKLYN, NY**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	22.5	J	mg/kg	1
Unknown Alkane	1.42	J	mg/kg	1
Unknown	1.58	J	mg/kg	1
Unknown Alkane	1.53	J	mg/kg	1
Unknown Naphthalene	1.18	J	mg/kg	1
Unknown Naphthalene	1.19	J	mg/kg	1
Unknown Alkane	1.61	J	mg/kg	1
Unknown Naphthalene	2.08	J	mg/kg	1
Unknown Alkane	1.30	J	mg/kg	1
Unknown Alkane	1.71	J	mg/kg	1
Unknown Alkane	2.25	J	mg/kg	1
Unknown Naphthalene	1.19	J	mg/kg	1
Unknown Naphthalene	1.73	J	mg/kg	1
Unknown Naphthalene	1.21	J	mg/kg	1
Unknown Naphthalene	1.36	J	mg/kg	1
Unknown Cycloalkane	1.14	J	mg/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		30-130
Phenol-d6	62		30-130
Nitrobenzene-d5	81		30-130
2-Fluorobiphenyl	52		30-130
2,4,6-Tribromophenol	61		30-130
4-Terphenyl-d14	47		30-130

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-06 D
Client ID: A-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/24/17 14:07
Analyst: ALS
Percent Solids: 91%

Date Collected: 03/17/17 13:15
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Bis(2-ethylhexyl)phthalate	9.2		mg/kg	0.72	0.075	4

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/19/17 23:29
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG986432-1					
Acenaphthene	ND		mg/kg	0.13	0.014
2-Chloronaphthalene	ND		mg/kg	0.16	0.015
Hexachlorobenzene	ND		mg/kg	0.047	0.015
Bis(2-chloroethyl)ether	ND		mg/kg	0.058	0.020
3,3'-Dichlorobenzidine	ND		mg/kg	0.12	0.042
2,4-Dinitrotoluene	ND		mg/kg	0.081	0.027
2,6-Dinitrotoluene	ND		mg/kg	0.064	0.021
Fluoranthene	ND		mg/kg	0.097	0.019
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.014
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.19	0.019
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.015
Hexachlorobutadiene	ND		mg/kg	0.060	0.020
Hexachlorocyclopentadiene	ND		mg/kg	0.46	0.10
Hexachloroethane	ND		mg/kg	0.079	0.026
Isophorone	ND		mg/kg	0.054	0.018
Naphthalene	ND		mg/kg	0.16	0.020
Nitrobenzene	ND		mg/kg	0.072	0.024
NDPA/DPA	ND		mg/kg	0.040	0.013
n-Nitrosodi-n-propylamine	ND		mg/kg	0.041	0.014
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.16	0.017
Butyl benzyl phthalate	ND		mg/kg	0.16	0.022
Di-n-butylphthalate	ND		mg/kg	0.16	0.014
Di-n-octylphthalate	ND		mg/kg	0.16	0.051
Diethyl phthalate	ND		mg/kg	0.16	0.015
Dimethyl phthalate	ND		mg/kg	0.16	0.016
Benzo(a)anthracene	ND		mg/kg	0.054	0.018
Benzo(a)pyrene	ND		mg/kg	0.12	0.040
Benzo(b)fluoranthene	ND		mg/kg	0.041	0.014
Benzo(k)fluoranthene	ND		mg/kg	0.034	0.011

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/19/17 23:29
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG986432-1					
Chrysene	ND		mg/kg	0.097	0.017
Acenaphthylene	ND		mg/kg	0.13	0.018
Anthracene	ND		mg/kg	0.097	0.014
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019
Fluorene	ND		mg/kg	0.16	0.016
Phenanthrene	ND		mg/kg	0.097	0.012
Dibenzo(a,h)anthracene	ND		mg/kg	0.056	0.019
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.068	0.023
Pyrene	ND		mg/kg	0.097	0.014
4-Chloroaniline	ND		mg/kg	0.16	0.019
2-Nitroaniline	ND		mg/kg	0.16	0.030
3-Nitroaniline	ND		mg/kg	0.16	0.031
4-Nitroaniline	ND		mg/kg	0.16	0.067
Dibenzofuran	ND		mg/kg	0.16	0.014
2-Methylnaphthalene	ND		mg/kg	0.19	0.017
2,4,6-Trichlorophenol	ND		mg/kg	0.092	0.031
p-Chloro-m-cresol	ND		mg/kg	0.16	0.024
2-Chlorophenol	ND		mg/kg	0.054	0.018
2,4-Dichlorophenol	ND		mg/kg	0.078	0.026
2,4-Dimethylphenol	ND		mg/kg	0.15	0.052
2-Nitrophenol	ND		mg/kg	0.35	0.027
2,4-Dinitrophenol	ND		mg/kg	0.23	0.076
4,6-Dinitro-o-cresol	ND		mg/kg	0.23	0.078
Pentachlorophenol	ND		mg/kg	0.11	0.036
Phenol	ND		mg/kg	0.16	0.019
2-Methylphenol	ND		mg/kg	0.16	0.025
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.23	0.023
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.031
Carbazole	ND		mg/kg	0.16	0.010

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/19/17 23:29
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG986432-1					
4-Nitrophenol	ND		mg/kg	0.23	0.045
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.018
Benzaldehyde	ND		mg/kg	0.21	0.025
Caprolactam	ND		mg/kg	0.16	0.035
Acetophenone	ND		mg/kg	0.16	0.017
Biphenyl	ND		mg/kg	0.37	0.038
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017
Atrazine	ND		mg/kg	0.13	0.057
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033

Tentatively Identified Compounds

No Tentatively Identified Compounds ND mg/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		30-130
Phenol-d6	82		30-130
Nitrobenzene-d5	82		30-130
2-Fluorobiphenyl	81		30-130
2,4,6-Tribromophenol	93		30-130
4-Terphenyl-d14	93		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG986432-2 WG986432-3								
Acenaphthene	82		75		70-130	9		30
2-Chloronaphthalene	83		76		70-130	9		30
Hexachlorobenzene	81		74		70-130	9		30
Bis(2-chloroethyl)ether	80		72		70-130	11		30
3,3'-Dichlorobenzidine	60	Q	55	Q	70-130	9		30
2,4-Dinitrotoluene	85		80		70-130	6		30
2,6-Dinitrotoluene	97		89		70-130	9		30
Fluoranthene	87		80		70-130	8		30
4-Chlorophenyl phenyl ether	81		74		70-130	9		30
Bis(2-chloroisopropyl)ether	92		83		70-130	10		30
Bis(2-chloroethoxy)methane	88		79		70-130	11		30
Hexachlorobutadiene	74		67	Q	70-130	10		30
Hexachlorocyclopentadiene	75		69		20-160	8		30
Hexachloroethane	76		70		20-160	8		30
Isophorone	90		80		70-130	12		30
Naphthalene	78		72		70-130	8		30
Nitrobenzene	87		80		70-130	8		30
NDPA/DPA	85		79		70-130	7		30
n-Nitrosodi-n-propylamine	89		82		70-130	8		30
Bis(2-ethylhexyl)phthalate	90		81		70-130	11		30
Butyl benzyl phthalate	88		82		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG986432-2 WG986432-3								
Di-n-butylphthalate	94		86		70-130	9		30
Di-n-octylphthalate	92		85		70-130	8		30
Diethyl phthalate	86		78		70-130	10		30
Dimethyl phthalate	87		79		70-130	10		30
Benzo(a)anthracene	85		78		70-130	9		30
Benzo(a)pyrene	90		86		70-130	5		30
Benzo(b)fluoranthene	88		84		70-130	5		30
Benzo(k)fluoranthene	85		81		70-130	5		30
Chrysene	83		77		70-130	8		30
Acenaphthylene	87		80		70-130	8		30
Anthracene	87		80		70-130	8		30
Benzo(ghi)perylene	86		79		70-130	8		30
Fluorene	84		78		70-130	7		30
Phenanthrene	83		76		70-130	9		30
Dibenzo(a,h)anthracene	85		78		70-130	9		30
Indeno(1,2,3-cd)pyrene	89		78		70-130	13		30
Pyrene	85		79		70-130	7		30
4-Chloroaniline	48		43		20-160	11		30
2-Nitroaniline	97		87		70-130	11		30
3-Nitroaniline	66	Q	62	Q	70-130	6		30
4-Nitroaniline	82		76		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG986432-2 WG986432-3								
Dibenzofuran	82		76		70-130	8		30
2-Methylnaphthalene	83		76		70-130	9		30
2,4,6-Trichlorophenol	97		86		70-130	12		30
p-Chloro-m-cresol	93		83		70-130	11		30
2-Chlorophenol	87		80		70-130	8		30
2,4-Dichlorophenol	91		83		70-130	9		30
2,4-Dimethylphenol	94		85		70-130	10		30
2-Nitrophenol	98		88		70-130	11		30
2,4-Dinitrophenol	64		57		20-160	12		30
4,6-Dinitro-o-cresol	88		81		70-130	8		30
Pentachlorophenol	74		67		20-160	10		30
Phenol	84		76		20-160	10		30
2-Methylphenol	87		79		70-130	10		30
3-Methylphenol/4-Methylphenol	90		81		20-160	11		30
2,4,5-Trichlorophenol	95		87		70-130	9		30
Carbazole	87		80		70-130	8		30
4-Nitrophenol	93		86		20-160	8		30
4-Bromophenyl phenyl ether	83		73		70-130	13		30
Benzaldehyde	75		68		20-160	10		30
Caprolactam	107		96		20-160	11		30
Acetophenone	86		79		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG986432-2 WG986432-3								
Biphenyl	84		78		70-130	7		30
1,2,4,5-Tetrachlorobenzene	80		73		70-130	9		30
Atrazine	95		84		70-130	12		30
2,3,4,6-Tetrachlorophenol	87		81		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	87		80		30-130
Phenol-d6	90		81		30-130
Nitrobenzene-d5	89		82		30-130
2-Fluorobiphenyl	83		76		30-130
2,4,6-Tribromophenol	91		84		30-130
4-Terphenyl-d14	86		78		30-130

PETROLEUM HYDROCARBONS

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-01
Client ID: A-1
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/20/17 22:54
Analyst: DV
Percent Solids: 90%

Date Collected: 03/17/17 13:15
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 04:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						

Total EPH	301		mg/kg	26.2	26.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	88		40-140
o-Terphenyl	91		40-140

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-02 D
Client ID: A-2
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/24/17 08:28
Analyst: SR
Percent Solids: 90%

Date Collected: 03/17/17 13:15
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 04:41
Cleanup Method: NJDEP EPH
Cleanup Date: 03/23/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C12 Aliphatics	150		mg/kg	17.0	17.0	2
C12-C16 Aliphatics	538		mg/kg	11.3	11.3	2
C16-C21 Aliphatics	133		mg/kg	17.0	17.0	2
C21-C40 Aliphatics	526		mg/kg	56.6	56.6	2
C10-C12 Aromatics	ND		mg/kg	11.3	11.3	2
C12-C16 Aromatics	30.7		mg/kg	17.0	17.0	2
C16-C21 Aromatics	89.6		mg/kg	28.3	28.3	2
C21-C36 Aromatics	150		mg/kg	45.3	45.3	2
Total EPH	1620		mg/kg	204	204.	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	69		40-140
2-Fluorobiphenyl	93		40-140
2-Bromonaphthalene	97		40-140

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-03 D
Client ID: A-3
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/24/17 09:09
Analyst: SR
Percent Solids: 93%

Date Collected: 03/17/17 13:15
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 04:41
Cleanup Method: NJDEP EPH
Cleanup Date: 03/23/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C12 Aliphatics	88.6		mg/kg	17.1	17.1	2
C12-C16 Aliphatics	519		mg/kg	11.4	11.4	2
C16-C21 Aliphatics	176		mg/kg	17.1	17.1	2
C21-C40 Aliphatics	891		mg/kg	57.0	57.0	2
C10-C12 Aromatics	ND		mg/kg	11.4	11.4	2
C12-C16 Aromatics	31.1		mg/kg	17.1	17.1	2
C16-C21 Aromatics	81.5		mg/kg	28.5	28.5	2
C21-C36 Aromatics	190		mg/kg	45.6	45.6	2
Total EPH	1980		mg/kg	205	205.	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	60		40-140
o-Terphenyl	70		40-140
2-Fluorobiphenyl	90		40-140
2-Bromonaphthalene	93		40-140

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-04 **D**
Client ID: A-4
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/24/17 09:49
Analyst: SR
Percent Solids: 90%

Date Collected: 03/17/17 13:15
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 04:41
Cleanup Method: NJDEP EPH
Cleanup Date: 03/23/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C12 Aliphatics	612		mg/kg	42.1	42.1	5
C12-C16 Aliphatics	1520		mg/kg	28.1	28.1	5
C16-C21 Aliphatics	484		mg/kg	42.1	42.1	5
C21-C40 Aliphatics	667		mg/kg	140	140.	5
C10-C12 Aromatics	84.8		mg/kg	28.1	28.1	5
C12-C16 Aromatics	322		mg/kg	42.1	42.1	5
C16-C21 Aromatics	484		mg/kg	70.2	70.2	5
C21-C36 Aromatics	115		mg/kg	112	112.	5
Total EPH	4290		mg/kg	506	506.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	59		40-140
o-Terphenyl	67		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	74		40-140

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-05 D
Client ID: A-5
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/24/17 10:29
Analyst: SR
Percent Solids: 87%

Date Collected: 03/17/17 13:15
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 04:41
Cleanup Method: NJDEP EPH
Cleanup Date: 03/23/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C12 Aliphatics	690		mg/kg	45.0	45.0	5
C12-C16 Aliphatics	1150		mg/kg	30.0	30.0	5
C16-C21 Aliphatics	378		mg/kg	45.0	45.0	5
C21-C40 Aliphatics	213		mg/kg	150	150.	5
C10-C12 Aromatics	65.2		mg/kg	30.0	30.0	5
C12-C16 Aromatics	127		mg/kg	45.0	45.0	5
C16-C21 Aromatics	184		mg/kg	75.1	75.1	5
C21-C36 Aromatics	ND		mg/kg	120	120.	5
Total EPH	2810		mg/kg	540	540.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	61		40-140
2-Fluorobiphenyl	77		40-140
2-Bromonaphthalene	82		40-140

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 103,NJDEP EPH

Extraction Method: EPA 3546

Analytical Date: 03/20/17 13:09

Extraction Date: 03/19/17 04:41

Analyst: DV

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 01 Batch: WG986509-1					
Total EPH	ND		mg/kg	23.2	23.2

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	61		40-140
o-Terphenyl	64		40-140

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 103,NJDEP EPH

Analytical Date: 03/24/17 07:08

Analyst: SR

Extraction Method: EPA 3546

Extraction Date: 03/19/17 04:41

Cleanup Method: NJDEP EPH

Cleanup Date: 03/23/17

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 02-05 Batch: WG987699-1					
C9-C12 Aliphatics	ND		mg/kg	7.72	7.72
C12-C16 Aliphatics	ND		mg/kg	5.14	5.14
C16-C21 Aliphatics	ND		mg/kg	7.72	7.72
C21-C40 Aliphatics	ND		mg/kg	25.7	25.7
C10-C12 Aromatics	ND		mg/kg	5.14	5.14
C12-C16 Aromatics	ND		mg/kg	7.72	7.72
C16-C21 Aromatics	ND		mg/kg	12.9	12.9
C21-C36 Aromatics	ND		mg/kg	20.6	20.6
Total EPH	ND		mg/kg	92.6	92.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	53		40-140
o-Terphenyl	54		40-140
2-Fluorobiphenyl	86		40-140
2-Bromonaphthalene	87		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01 Batch: WG986509-2 WG986509-3								
Total EPH	99		98		40-140	1		25
Nonane (C9)	59		68		40-140	14		25
Decane (C10)	70		77		40-140	10		25
Dodecane (C12)	69		73		40-140	6		25
Tetradecane (C14)	78		88		40-140	12		25
Hexadecane (C16)	82		88		40-140	7		25
Octadecane (C18)	91		93		40-140	2		25
Eicosane (C20)	97		96		40-140	1		25
Heneicosane (C21)	103		102		40-140	1		25
Docosane (C22)	103		104		40-140	1		25
Tetracosane (C24)	100		98		40-140	2		25
Hexacosane (C26)	99		96		40-140	3		25
Octacosane (C28)	98		96		40-140	2		25
Triacontane (C30)	96		95		40-140	1		25
Dotriacontane (C32)	97		94		40-140	3		25
Tetratriacontane (C34)	95		89		40-140	7		25
Hexatriacontane (C36)	97		92		40-140	5		25
Octatriacontane (C38)	93		91		40-140	2		25
Tetracontane (C40)	91		87		40-140	4		25

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01 Batch: WG986509-2 WG986509-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	83		85		40-140
o-Terphenyl	85		93		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 02-05 Batch: WG987699-2 WG987699-3								
C9-C12 Aliphatics	62		70		40-140	12		25
C12-C16 Aliphatics	92		98		40-140	6		25
C16-C21 Aliphatics	113		121		40-140	7		25
C21-C40 Aliphatics	92		88		40-140	4		25
C10-C12 Aromatics	66		63		40-140	5		25
C12-C16 Aromatics	50		49		40-140	2		25
C16-C21 Aromatics	88		92		40-140	4		25
C21-C36 Aromatics	82		77		40-140	6		25
Nonane (C9)	50		58		40-140	15		25
Decane (C10)	59		66		40-140	11		25
Dodecane (C12)	64		71		40-140	10		25
Tetradecane (C14)	68		74		40-140	8		25
Hexadecane (C16)	74		80		40-140	8		25
Octadecane (C18)	80		83		40-140	4		25
Eicosane (C20)	83		83		40-140	0		25
Heneicosane (C21)	83		82		40-140	1		25
Docosane (C22)	85		84		40-140	1		25
Tetracosane (C24)	85		84		40-140	1		25
Hexacosane (C26)	84		84		40-140	0		25
Octacosane (C28)	84		83		40-140	1		25
Triacontane (C30)	86		85		40-140	1		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 02-05 Batch: WG987699-2 WG987699-3								
Dotriacontane (C32)	87		85		40-140	2		25
Tetratriacontane (C34)	83		80		40-140	4		25
Hexatriacontane (C36)	84		81		40-140	4		25
Octatriacontane (C38)	82		78		40-140	5		25
Tetracontane (C40)	78		75		40-140	4		25
Acenaphthene	73		75		40-140	3		25
Acenaphthylene	68		69		40-140	1		25
Anthracene	80		80		40-140	0		25
Benzo(a)anthracene	81		76		40-140	6		25
Benzo(a)pyrene	76		71		40-140	7		25
Benzo(b)fluoranthene	85		77		40-140	10		25
Benzo(ghi)perylene	72		68		40-140	6		25
Benzo(k)fluoranthene	80		74		40-140	8		25
Chrysene	82		76		40-140	8		25
Dibenzo(a,h)anthracene	78		72		40-140	8		25
Fluoranthene	83		81		40-140	2		25
Fluorene	73		77		40-140	5		25
Indeno(1,2,3-cd)Pyrene	75		72		40-140	4		25
2-Methylnaphthalene	65		64		40-140	2		25
Naphthalene	64		61		40-140	5		25
Phenanthrene	80		81		40-140	1		25

Lab Control Sample Analysis Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 02-05 Batch: WG987699-2 WG987699-3								
Pyrene	83		79		40-140	5		25
1,2,3-Trimethylbenzene	57		54		40-140	5		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	72		75		40-140
o-Terphenyl	74		77		40-140
2-Fluorobiphenyl	89		83		40-140
2-Bromonaphthalene	91		87		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

Matrix Spike Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Sample Associated sample(s): 01 QC Batch ID: WG986509-4 QC Sample: L1708197-04 Client ID: MS												
Total EPH	ND	267	273	102		-	-		40-140	-		50
Nonane (C9)	ND	7.42	5.02	68		-	-		40-140	-		50
Decane (C10)	ND	7.42	5.86	79		-	-		40-140	-		50
Dodecane (C12)	ND	7.42	5.61	76		-	-		40-140	-		50
Tetradecane (C14)	ND	7.42	6.53	88		-	-		40-140	-		50
Hexadecane (C16)	ND	7.42	6.47	87		-	-		40-140	-		50
Octadecane (C18)	ND	7.42	7.16	97		-	-		40-140	-		50
Eicosane (C20)	ND	7.42	7.65	103		-	-		40-140	-		50
Heneicosane (C21)	ND	7.42	7.93	107		-	-		40-140	-		50
Docosane (C22)	ND	7.42	8.27	111		-	-		40-140	-		50
Tetracosane (C24)	ND	7.42	7.62	103		-	-		40-140	-		50
Hexacosane (C26)	ND	7.42	7.62	103		-	-		40-140	-		50
Octacosane (C28)	ND	7.42	7.49	101		-	-		40-140	-		50
Triacontane (C30)	ND	7.42	7.53	102		-	-		40-140	-		50
Dotriacontane (C32)	ND	7.42	7.41	100		-	-		40-140	-		50
Tetratriacontane (C34)	ND	7.42	7.18	97		-	-		40-140	-		50
Hexatriacontane (C36)	ND	7.42	7.35	99		-	-		40-140	-		50
Octatriacontane (C38)	ND	7.42	7.10	96		-	-		40-140	-		50
Tetracontane (C40)	ND	7.42	6.86	93		-	-		40-140	-		50

Matrix Spike Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>

NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01 QC Batch ID: WG986509-4 QC Sample: L1708197-04 Client ID: MS Sample

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
Chloro-Octadecane	88				40-140
o-Terphenyl	94				40-140

Lab Duplicate Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01 QC Batch ID: WG986509-5 QC Sample: L1708197-04 Client ID: DUP Sample						
Total EPH	ND	ND	mg/kg	NC		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	86		79		40-140
o-Terphenyl	89		84		40-140

PCBS

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-06
Client ID: A-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/21/17 02:47
Analyst: HT
Percent Solids: 91%

Date Collected: 03/17/17 13:15
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 22:06
Cleanup Method: EPA 3665A
Cleanup Date: 03/20/17
Cleanup Method: EPA 3660B
Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0357	0.00282	1	A
Aroclor 1221	ND		mg/kg	0.0357	0.00329	1	A
Aroclor 1232	ND		mg/kg	0.0357	0.00419	1	A
Aroclor 1242	ND		mg/kg	0.0357	0.00437	1	A
Aroclor 1248	ND		mg/kg	0.0357	0.00302	1	A
Aroclor 1254	ND		mg/kg	0.0357	0.00294	1	A
Aroclor 1260	ND		mg/kg	0.0357	0.00272	1	A
Aroclor 1262	ND		mg/kg	0.0357	0.00177	1	A
Aroclor 1268	ND		mg/kg	0.0357	0.00518	1	A
PCBs, Total	ND		mg/kg	0.0357	0.00177	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 03/20/17 23:13
 Analyst: JA

Extraction Method: EPA 3546
 Extraction Date: 03/19/17 21:30
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/20/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 06 Batch: WG986560-1						
Aroclor 1016	ND		mg/kg	0.0331	0.00261	A
Aroclor 1221	ND		mg/kg	0.0331	0.00305	A
Aroclor 1232	ND		mg/kg	0.0331	0.00388	A
Aroclor 1242	ND		mg/kg	0.0331	0.00405	A
Aroclor 1248	ND		mg/kg	0.0331	0.00279	A
Aroclor 1254	ND		mg/kg	0.0331	0.00272	A
Aroclor 1260	ND		mg/kg	0.0331	0.00252	A
Aroclor 1262	ND		mg/kg	0.0331	0.00164	A
Aroclor 1268	ND		mg/kg	0.0331	0.00479	A
PCBs, Total	ND		mg/kg	0.0331	0.00164	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	73		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 06 Batch: WG986560-2 WG986560-3									
Aroclor 1016	103		102		40-140	1		30	A
Aroclor 1260	109		114		40-140	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		99		30-150	A
Decachlorobiphenyl	107		111		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		94		30-150	B
Decachlorobiphenyl	76		76		30-150	B

PESTICIDES

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-06
Client ID: A-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/21/17 05:12
Analyst: DM
Percent Solids: 91%

Date Collected: 03/17/17 13:15
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 20:22
Cleanup Method: EPA 3620B
Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		mg/kg	0.00171	0.00033	1	A
Lindane	ND		mg/kg	0.00071	0.00031	1	A
Alpha-BHC	ND		mg/kg	0.00071	0.00020	1	A
Beta-BHC	ND		mg/kg	0.00171	0.00064	1	A
Heptachlor	ND		mg/kg	0.00085	0.00038	1	A
Aldrin	ND		mg/kg	0.00171	0.00060	1	B
Heptachlor epoxide	ND		mg/kg	0.00320	0.00096	1	A
Endrin	ND		mg/kg	0.00071	0.00029	1	A
Endrin aldehyde	ND		mg/kg	0.00213	0.00074	1	A
Endrin ketone	ND		mg/kg	0.00171	0.00044	1	A
Dieldrin	ND		mg/kg	0.00107	0.00053	1	A
4,4'-DDE	0.00374	P	mg/kg	0.00171	0.00039	1	A
4,4'-DDD	0.0277		mg/kg	0.00171	0.00060	1	B
4,4'-DDT	ND		mg/kg	0.00320	0.00137	1	A
Endosulfan I	ND		mg/kg	0.00171	0.00040	1	A
Endosulfan II	ND		mg/kg	0.00171	0.00057	1	A
Endosulfan sulfate	ND		mg/kg	0.00071	0.00033	1	A
Methoxychlor	ND		mg/kg	0.00320	0.00099	1	A
Toxaphene	ND		mg/kg	0.0320	0.00896	1	A
Chlordane	ND		mg/kg	0.0139	0.00565	1	A
cis-Chlordane	ND		mg/kg	0.00213	0.00059	1	A
trans-Chlordane	ND		mg/kg	0.00213	0.00056	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	108		30-150	A

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/21/17 02:32
 Analyst: RL

Extraction Method: EPA 3546
 Extraction Date: 03/19/17 20:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Pesticides by GC - Westborough Lab for sample(s): 06 Batch: WG986556-1						
Delta-BHC	ND		mg/kg	0.00152	0.00029	A
Lindane	ND		mg/kg	0.00063	0.00028	A
Alpha-BHC	ND		mg/kg	0.00063	0.00017	A
Beta-BHC	ND		mg/kg	0.00152	0.00057	A
Heptachlor	ND		mg/kg	0.00075	0.00034	A
Aldrin	ND		mg/kg	0.00152	0.00053	A
Heptachlor epoxide	ND		mg/kg	0.00284	0.00085	A
Endrin	ND		mg/kg	0.00063	0.00025	A
Endrin aldehyde	ND		mg/kg	0.00190	0.00066	A
Endrin ketone	ND		mg/kg	0.00152	0.00039	A
Dieldrin	ND		mg/kg	0.00094	0.00047	A
4,4'-DDE	ND		mg/kg	0.00152	0.00035	A
4,4'-DDD	ND		mg/kg	0.00152	0.00054	A
4,4'-DDT	ND		mg/kg	0.00284	0.00122	A
Endosulfan I	ND		mg/kg	0.00152	0.00035	A
Endosulfan II	ND		mg/kg	0.00152	0.00050	A
Endosulfan sulfate	ND		mg/kg	0.00063	0.00030	A
Methoxychlor	ND		mg/kg	0.00284	0.00088	A
Toxaphene	ND		mg/kg	0.0284	0.00796	A
Chlordane	ND		mg/kg	0.0123	0.00502	A
cis-Chlordane	ND		mg/kg	0.00190	0.00052	A
trans-Chlordane	ND		mg/kg	0.00190	0.00050	A

Project Name: KINGS PLAZA - AREA A**Lab Number:** L1708256**Project Number:** 15026**Report Date:** 03/24/17**Method Blank Analysis**
Batch Quality ControlAnalytical Method: 1,8081B
Analytical Date: 03/21/17 02:32
Analyst: RLExtraction Method: EPA 3546
Extraction Date: 03/19/17 20:22
Cleanup Method: EPA 3620B
Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL
Pesticides by GC - Westborough Lab for sample(s): 06 Batch: WG986556-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	102		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	118		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Pesticides by GC - Westborough Lab Associated sample(s): 06 Batch: WG986556-2 WG986556-3									
Delta-BHC	89		102		40-140	14		30	A
Lindane	89		101		40-140	13		30	A
Alpha-BHC	91		102		40-140	11		30	A
Beta-BHC	86		103		40-140	18		30	A
Heptachlor	88		97		40-140	10		30	A
Aldrin	91		101		40-140	10		30	A
Heptachlor epoxide	89		101		40-140	13		30	A
Endrin	108		123		40-140	13		30	A
Endrin aldehyde	79		88		40-140	11		30	A
Endrin ketone	91		103		40-140	12		30	A
Dieldrin	97		111		40-140	13		30	A
4,4'-DDE	92		104		40-140	12		30	A
4,4'-DDD	91		104		40-140	13		30	A
4,4'-DDT	102		115		40-140	12		30	A
Endosulfan I	88		97		40-140	10		30	A
Endosulfan II	86		97		40-140	12		30	A
Endosulfan sulfate	91		100		40-140	9		30	A
Methoxychlor	114		128		40-140	12		30	A
cis-Chlordane	82		92		40-140	11		30	A
trans-Chlordane	81		91		40-140	12		30	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 06 Batch: WG986556-2 WG986556-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		83		30-150	B
Decachlorobiphenyl	98		110		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		100		30-150	A
Decachlorobiphenyl	111		126		30-150	A

METALS

Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-06

Date Collected: 03/17/17 13:15

Client ID: A-COMP

Date Received: 03/17/17

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Matrix: Soil

TCLP/SPLP Ext. Date: 03/20/17 14:59

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	0.02	1	03/21/17 17:32	03/22/17 15:36	EPA 3015	1,6010C	AB
Barium, TCLP	0.76		mg/l	0.50	0.02	1	03/21/17 17:32	03/22/17 15:36	EPA 3015	1,6010C	AB
Cadmium, TCLP	0.05	J	mg/l	0.10	0.01	1	03/21/17 17:32	03/22/17 15:36	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.20	0.02	1	03/21/17 17:32	03/22/17 15:36	EPA 3015	1,6010C	AB
Lead, TCLP	0.34	J	mg/l	0.50	0.03	1	03/21/17 17:32	03/22/17 15:36	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	03/21/17 12:08	03/21/17 22:10	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.50	0.04	1	03/21/17 17:32	03/22/17 15:36	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.10	0.03	1	03/21/17 17:32	03/22/17 15:36	EPA 3015	1,6010C	AB



Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-06

Date Collected: 03/17/17 13:15

Client ID: A-COMP

Date Received: 03/17/17

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2700		mg/kg	8.5	2.3	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Antimony, Total	1.6	J	mg/kg	4.3	0.32	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Arsenic, Total	3.8		mg/kg	0.85	0.18	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Barium, Total	82		mg/kg	0.85	0.15	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Beryllium, Total	0.21	J	mg/kg	0.43	0.03	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Cadmium, Total	5.7		mg/kg	0.85	0.08	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Calcium, Total	31000		mg/kg	8.5	3.0	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Chromium, Total	7.4		mg/kg	0.85	0.08	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Cobalt, Total	3.2		mg/kg	1.7	0.14	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Copper, Total	26		mg/kg	0.85	0.22	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Iron, Total	9100		mg/kg	4.3	0.77	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Lead, Total	74		mg/kg	4.3	0.23	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Magnesium, Total	15000		mg/kg	8.5	1.3	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Manganese, Total	89		mg/kg	0.85	0.14	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Mercury, Total	0.15		mg/kg	0.07	0.01	1	03/21/17 06:25	03/21/17 12:48	EPA 7471B	1,7471B	BV
Nickel, Total	13		mg/kg	2.1	0.21	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Potassium, Total	430		mg/kg	210	12.	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Selenium, Total	0.32	J	mg/kg	1.7	0.22	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.85	0.24	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Sodium, Total	480		mg/kg	170	2.7	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.7	0.27	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Vanadium, Total	17		mg/kg	0.85	0.17	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB
Zinc, Total	140		mg/kg	4.3	0.25	2	03/20/17 20:08	03/21/17 23:53	EPA 3050B	1,6010C	AB



Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06 Batch: WG986782-1										
Aluminum, Total	ND		mg/kg	4.0	1.1	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Antimony, Total	ND		mg/kg	2.0	0.15	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Arsenic, Total	ND		mg/kg	0.40	0.08	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Barium, Total	ND		mg/kg	0.40	0.07	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Beryllium, Total	ND		mg/kg	0.20	0.01	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.40	0.04	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Calcium, Total	ND		mg/kg	4.0	1.4	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Chromium, Total	ND		mg/kg	0.40	0.04	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Cobalt, Total	ND		mg/kg	0.80	0.07	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Copper, Total	ND		mg/kg	0.40	0.10	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Iron, Total	0.50	J	mg/kg	2.0	0.36	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Lead, Total	ND		mg/kg	2.0	0.11	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Magnesium, Total	ND		mg/kg	4.0	0.62	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Manganese, Total	ND		mg/kg	0.40	0.06	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Nickel, Total	ND		mg/kg	1.0	0.10	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Potassium, Total	ND		mg/kg	100	5.8	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Selenium, Total	ND		mg/kg	0.80	0.10	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Silver, Total	ND		mg/kg	0.40	0.11	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Sodium, Total	ND		mg/kg	80	1.3	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Thallium, Total	ND		mg/kg	0.80	0.13	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Vanadium, Total	ND		mg/kg	0.40	0.08	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Zinc, Total	ND		mg/kg	2.0	0.12	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06 Batch: WG986829-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	03/21/17 06:25	03/21/17 12:25	1,7471B	BV



Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 06 Batch: WG986960-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	03/21/17 12:08	03/21/17 21:59	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 03/20/17 14:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 06 Batch: WG987051-1										
Arsenic, TCLP	ND		mg/l	1.0	0.02	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Barium, TCLP	0.03	J	mg/l	0.50	0.02	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.10	0.01	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.20	0.02	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Lead, TCLP	ND		mg/l	0.50	0.03	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Selenium, TCLP	ND		mg/l	0.50	0.04	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Silver, TCLP	ND		mg/l	0.10	0.03	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 03/20/17 14:59

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG986782-2 SRM Lot Number: D091-540								
Aluminum, Total	77		-		52-148	-		
Antimony, Total	146		-		1-200	-		
Arsenic, Total	103		-		80-121	-		
Barium, Total	96		-		84-117	-		
Beryllium, Total	99		-		83-117	-		
Cadmium, Total	96		-		83-117	-		
Calcium, Total	95		-		81-118	-		
Chromium, Total	98		-		80-119	-		
Cobalt, Total	97		-		84-115	-		
Copper, Total	92		-		82-117	-		
Iron, Total	100		-		47-154	-		
Lead, Total	96		-		82-118	-		
Magnesium, Total	87		-		77-123	-		
Manganese, Total	91		-		82-118	-		
Nickel, Total	93		-		83-117	-		
Potassium, Total	92		-		72-128	-		
Selenium, Total	90		-		79-121	-		
Silver, Total	96		-		75-124	-		
Sodium, Total	98		-		73-126	-		
Thallium, Total	85		-		80-121	-		
Vanadium, Total	96		-		78-122	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG986782-2 SRM Lot Number: D091-540					
Zinc, Total	98	-	82-118	-	
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG986829-2 SRM Lot Number: D091-540					
Mercury, Total	98	-	72-128	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 Batch: WG986960-2					
Mercury, TCLP	103	-	80-120	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 Batch: WG987051-2					
Arsenic, TCLP	100	-	75-125	-	20
Barium, TCLP	95	-	75-125	-	20
Cadmium, TCLP	98	-	75-125	-	20
Chromium, TCLP	90	-	75-125	-	20
Lead, TCLP	90	-	75-125	-	20
Selenium, TCLP	100	-	75-125	-	20
Silver, TCLP	94	-	75-125	-	20

INORGANICS & MISCELLANEOUS

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-06
Client ID: A-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 13:15
Date Received: 03/17/17
Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	03/21/17 02:00	1,1030	SB



Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-01
Client ID: A-1
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 13:15
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.1		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI



Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-02
Client ID: A-2
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 13:15
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.9		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI



Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-03
Client ID: A-3
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 13:15
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.9		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI



Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-04
Client ID: A-4
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 13:15
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.4		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI



Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-05
Client ID: A-5
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 13:15
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI



Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708256-06
Client ID: A-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 13:15
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.18	1	03/20/17 11:10	03/20/17 14:29	1,9010C/9012B	JO
pH (H)	8.5		SU	-	NA	1	-	03/18/17 10:20	1,9045D	MR
Cyanide, Reactive	ND		mg/kg	10	10.	1	03/20/17 22:00	03/20/17 23:11	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	10.	1	03/20/17 22:00	03/20/17 23:05	1,7.3	TL
Paint Filter Liquid	NEGATIVE		-	0	NA	1	-	03/20/17 18:05	1,9095B	AS



Project Name: KINGS PLAZA - AREA A

Lab Number: L1708256

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG986613-1										
Cyanide, Total	ND		mg/kg	0.90	0.15	1	03/20/17 11:10	03/20/17 14:09	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG986753-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	03/20/17 22:00	03/20/17 23:09	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG986756-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	03/20/17 22:00	03/20/17 23:01	1,7.3	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG986389-1								
pH	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG986613-2 WG986613-3								
Cyanide, Total	97		90		80-120	6		35
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG986753-2								
Cyanide, Reactive	61		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG986756-2								
Sulfide, Reactive	96		-		60-125	-		40

Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1708256
Report Date: 03/24/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG986480-1 QC Sample: L1708256-06 Client ID: A-COMP						
Solids, Total	91.0	90.3	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG986753-3 QC Sample: L1708256-06 Client ID: A-COMP						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG986756-3 QC Sample: L1708256-06 Client ID: A-COMP						
Sulfide, Reactive	ND	ND	mg/kg	NC		40

Project Name: KINGS PLAZA - AREA A

Project Number: 15026

Lab Number: L1708256

Report Date: 03/24/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 20-MAR-17 07:23

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1708256-01A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH-TPH-CAT2(14),NJ-8260(14),TS(7)
L1708256-01X	Vial MeOH preserved split	A	N/A	2.1	Y	Absent	NJ-8260(14)
L1708256-01Y	Vial Water preserved split	A	N/A	2.1	Y	Absent	NJ-8260(14)
L1708256-01Z	Vial Water preserved split	A	N/A	2.1	Y	Absent	NJ-8260(14)
L1708256-02A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH(14),TS(7)
L1708256-03A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH(14),TS(7)
L1708256-04A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH(14),TS(7)
L1708256-05A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH(14),TS(7)
L1708256-06A	Glass 250ml/8oz unpreserved	A	N/A	2.1	Y	Absent	TCLP-EXT-ZHE(14)
L1708256-06B	Glass 500ml/16oz unpreserved	A	N/A	2.1	Y	Absent	HOLD-CONTINGENCY(14),IGNIT-1030(14),REACTS(14),TCN-9010(14),NJ-8082(14),NJ-8270(14),TS(7),PH-9045(1),PAINTF(),NJ-8081(14),REACTCN(14)
L1708256-06C	Glass 60ml unpreserved split	A	N/A	2.1	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1708256-06U	Vial unpreserved Extracts	A	N/A	2.1	Y	Absent	TCLP-VOA(14)
L1708256-06V	Vial unpreserved Extracts	A	N/A	2.1	Y	Absent	TCLP-VOA(14)
L1708256-06X	Plastic 120ml HNO3 preserved Ext	A	<2	2.1	Y	Absent	CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1708256-06X9	Tumble Vessel	A	N/A	2.1	Y	Absent	-

*Values in parentheses indicate holding time in days



Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers



Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: KINGS PLAZA - AREA A
Project Number: 15026

Lab Number: L1708256
Report Date: 03/24/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

Published Date: 1/16/2017 11:00:05 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** NPW and SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**EPA 9012B:** NPW: Total Cyanide**EPA 9050A:** NPW: Specific Conductance**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****SM 2540D:** TSS**EPA 3005A** NPW**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.****Mansfield Facility:****Drinking Water****EPA 200.7:** Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.**Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1** Hg.**SM2340B**

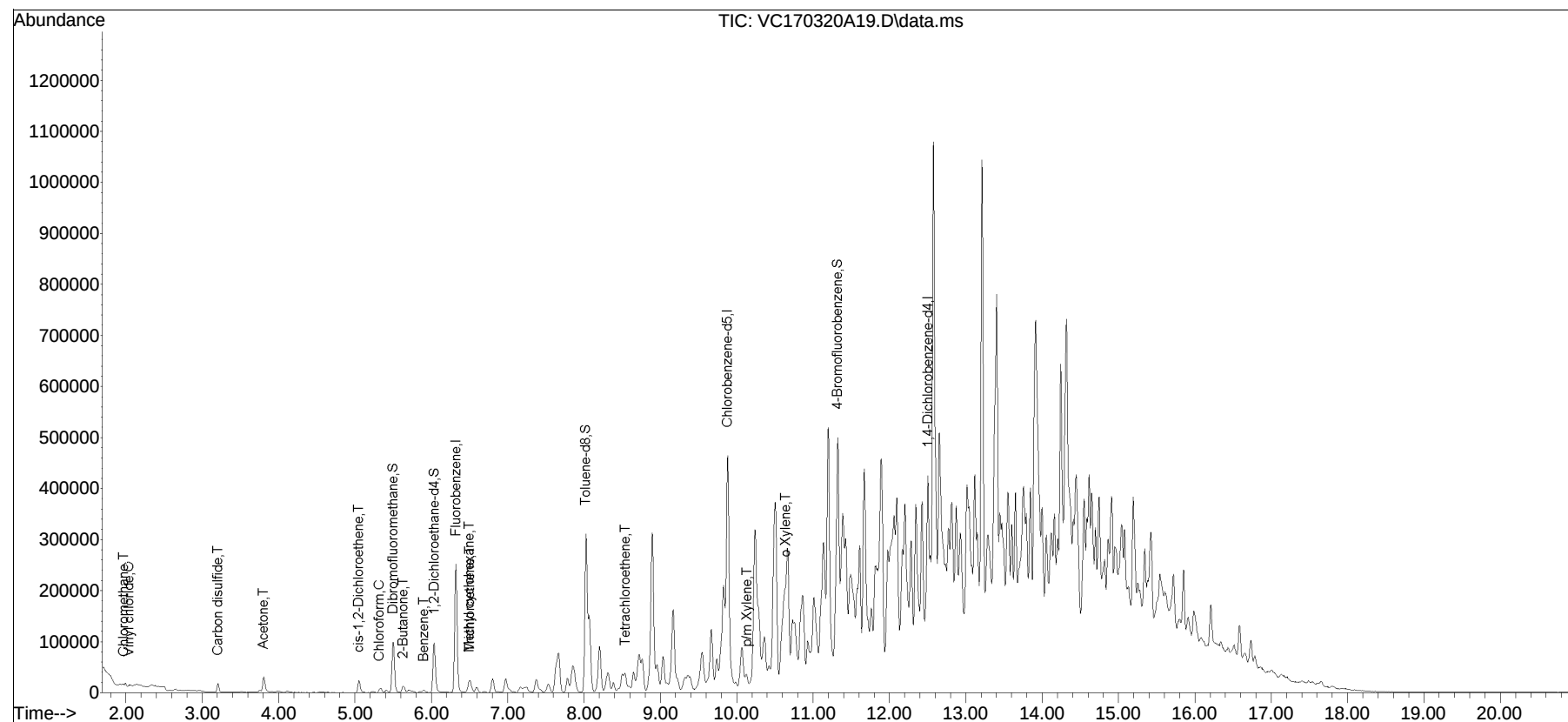
For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Quantitation Report (LSC Reviewed)

Data Path : I:\VOLATILES\Charlie\2017\170320A\
Data File : VC170320A19.D
Acq On : 20 Mar 2017 19:51
Operator : CHARLIE:MV
Sample : l1708256-01,31,5.1,5,,y
Misc : WG986909,ICAL13495
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 21 07:05:57 2017
Quant Method : I:\VOLATILES\Charlie\2017\170320A\C_170316_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Mar 17 17:18:55 2017
Response via : Initial Calibration

Sub List : 8260-NJTCL - Standard NJ Sublist0320A\VC170320A02.D•



JOB: L1708261 REPORT STYLE: Data Usability Report
0010: Alpha Analytical Report Cover Page - OK
0015: Sample Cross Reference Summary - OK
0060: Case Narrative - OK
0100: Volatiles Cover Page - OK
0110: Volatiles Sample Results - OK
0120: Volatiles Method Blank Report - OK
0130: Volatiles LCS Report - OK
0180: Semivolatiles Cover Page - OK
0190: Semivolatiles Sample Results - OK
0200: Semivolatiles Method Blank Report - OK
0210: Semivolatiles LCS Report - OK
0290: Petroleum Cover Page - OK
0300: Petroleum Sample Results - OK
0310: Petroleum Method Blank Report - OK
0320: Petroleum LCS Report - OK
0350: Petroleum Duplicate Report - OK
0700: PCBs Cover Page - OK
0710: PCBs Sample Results - OK
0720: PCBs Method Blank Report - OK
0730: PCBs LCS Report - OK
0900: Pesticides Cover Page - OK
0910: Pesticides Sample Results - OK
0920: Pesticides Method Blank Report - OK
0930: Pesticides LCS Report - OK
1005: Metals Sample Results - OK
1010: Metals Method Blank Report - OK
1020: Metals LCS Report - OK
1180: Inorganics Cover Page - OK
1190: Ignitability Results - OK
1200: Wet Chemistry Sample Results - OK
1210: Wet Chemistry Method Blank Report - OK
1220: Wet Chemistry LCS Report - OK
5100: Sample Receipt & Container Information Report - OK
5200: Glossary - OK
5400: References - OK



ANALYTICAL REPORT

Lab Number:	L1708261
Client:	AWT Environmental Services, Inc. P.O. Box 128 Sayreville, NJ 08871
ATTN:	David Anagnos
Phone:	(732) 613-1660
Project Name:	KINGS PLAZA - AREA B
Project Number:	15026
Report Date:	03/27/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1708261-01	B-1	SOIL	BROOKLYN, NY	03/17/17 12:50	03/17/17
L1708261-02	B-2	SOIL	BROOKLYN, NY	03/17/17 12:50	03/17/17
L1708261-03	B-3	SOIL	BROOKLYN, NY	03/17/17 12:50	03/17/17
L1708261-04	B-4	SOIL	BROOKLYN, NY	03/17/17 12:50	03/17/17
L1708261-05	B-5	SOIL	BROOKLYN, NY	03/17/17 12:50	03/17/17
L1708261-06	B-COMP	SOIL	BROOKLYN, NY	03/17/17 12:50	03/17/17

Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

Case Narrative (continued)

Report Submission

This is a partial report. A final report will be issued as soon as the results of all requested analyses become available.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The analysis of Volatile Organics was received in an inappropriate container.

Volatile Organics

L1708261-01: The analysis of Volatile Organics was performed from a methanol extract due to the elevated concentrations of non-target compounds in the sample.

L1708261-01: One or more of the target analytes did not achieve the requested regulatory limits.

TCLP Volatiles

L1708261-06: One or more of the target analytes did not achieve the requested regulatory limits.

Semivolatile Organics

WG986432-2/-3: One or more compounds failed to meet the recovery and/or RPD limits. Please refer to the QC section of the report for specific details.

NJ EPH

WG987666: An MS was not analyzed because the dilution required by the elevated concentrations of non-target compounds present in the native sample would have caused the spike compounds to be diluted below the range of calibration.

WG987666-5: One or more compounds failed to meet the recovery and/or RPD limits. Please refer to the QC section of the report for specific details.

Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

Case Narrative (continued)

NJ EPH (Total)

WG986528: The Matrix Spike and Laboratory Duplicate required fractionation; therefore, the results are not reported for this analysis.

Metals

L1708261-06: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Kelly Stenstrom

Title: Technical Director/Representative

Date: 03/27/17

ORGANICS

VOLATILES

Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-01
Client ID: B-1
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/21/17 16:12
Analyst: TE
Percent Solids: 82%

Date Collected: 03/17/17 12:50
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.21	0.027	1
1,4-Dioxane	ND		mg/kg	2.8	0.99	1
1,2-Dibromoethane	ND		mg/kg	0.21	0.014	1
Methylene chloride	ND		mg/kg	0.34	0.11	1
1,1-Dichloroethane	ND		mg/kg	0.10	0.019	1
Chloroform	ND		mg/kg	0.10	0.026	1
Carbon tetrachloride	ND		mg/kg	0.069	0.024	1
1,2-Dichloropropane	ND		mg/kg	0.24	0.016	1
Dibromochloromethane	ND		mg/kg	0.069	0.012	1
1,1,2-Trichloroethane	ND		mg/kg	0.10	0.022	1
Tetrachloroethene	0.037	J	mg/kg	0.069	0.021	1
Chlorobenzene	ND		mg/kg	0.069	0.024	1
Trichlorofluoromethane	ND		mg/kg	0.34	0.029	1
1,2-Dichloroethane	ND		mg/kg	0.069	0.017	1
1,1,1-Trichloroethane	ND		mg/kg	0.069	0.024	1
Bromodichloromethane	ND		mg/kg	0.069	0.021	1
trans-1,3-Dichloropropene	ND		mg/kg	0.069	0.014	1
cis-1,3-Dichloropropene	ND		mg/kg	0.069	0.016	1
1,3-Dichloropropene, Total	ND		mg/kg	0.069	0.014	1
Bromoform	ND		mg/kg	0.28	0.016	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.069	0.020	1
Benzene	ND		mg/kg	0.069	0.013	1
Toluene	ND		mg/kg	0.10	0.013	1
Ethylbenzene	ND		mg/kg	0.069	0.012	1
Chloromethane	ND		mg/kg	0.34	0.030	1
Bromomethane	ND		mg/kg	0.14	0.023	1
Vinyl chloride	ND		mg/kg	0.14	0.022	1
Chloroethane	ND		mg/kg	0.14	0.022	1
1,1-Dichloroethene	ND		mg/kg	0.069	0.026	1
trans-1,2-Dichloroethene	ND		mg/kg	0.10	0.017	1

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-01

Date Collected: 03/17/17 12:50

Client ID: B-1

Date Received: 03/17/17

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.046	J	mg/kg	0.069	0.021	1
1,2-Dichlorobenzene	ND		mg/kg	0.34	0.012	1
1,3-Dichlorobenzene	ND		mg/kg	0.34	0.015	1
1,4-Dichlorobenzene	ND		mg/kg	0.34	0.012	1
Methyl tert butyl ether	ND		mg/kg	0.14	0.010	1
p/m-Xylene	0.039	J	mg/kg	0.14	0.024	1
o-Xylene	ND		mg/kg	0.14	0.023	1
Xylene (Total)	0.039	J	mg/kg	0.14	0.023	1
cis-1,2-Dichloroethene	0.20		mg/kg	0.069	0.024	1
1,2-Dichloroethene (total)	0.20		mg/kg	0.069	0.017	1
Styrene	ND		mg/kg	0.14	0.028	1
Dichlorodifluoromethane	ND		mg/kg	0.69	0.034	1
Acetone	0.28	J	mg/kg	2.5	0.16	1
Carbon disulfide	ND		mg/kg	0.69	0.076	1
2-Butanone	ND		mg/kg	0.69	0.048	1
4-Methyl-2-pentanone	ND		mg/kg	0.69	0.017	1
2-Hexanone	ND		mg/kg	0.69	0.046	1
Bromochloromethane	ND		mg/kg	0.34	0.025	1
Isopropylbenzene	0.046	J	mg/kg	0.069	0.013	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.34	0.017	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.34	0.015	1
Methyl Acetate	ND		mg/kg	0.28	0.032	1
Cyclohexane	ND		mg/kg	1.4	0.030	1
Methyl cyclohexane	0.12	J	mg/kg	0.28	0.016	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	1.4	0.035	1

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-01

Date Collected: 03/17/17 12:50

Client ID: B-1

Date Received: 03/17/17

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	43.4	J	mg/kg	1
Unknown Aromatic	2.28	J	mg/kg	1
Unknown	3.20	J	mg/kg	1
Unknown	3.37	J	mg/kg	1
Unknown	4.63	J	mg/kg	1
Unknown	3.58	J	mg/kg	1
Unknown	2.98	J	mg/kg	1
Unknown Benzene	2.32	J	mg/kg	1
Unknown	2.96	J	mg/kg	1
Unknown	3.00	J	mg/kg	1
Unknown Benzene	2.59	J	mg/kg	1
Unknown Naphthalene	2.77	J	mg/kg	1
Unknown	2.31	J	mg/kg	1
Unknown Aromatic	2.27	J	mg/kg	1
Unknown	2.45	J	mg/kg	1
Unknown	2.68	J	mg/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	98		70-130

Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-06
Client ID: B-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/22/17 09:38
Analyst: MM
Percent Solids: 89%
TCLP/SPLP Ext. Date: 03/21/17 14:20

Date Collected: 03/17/17 12:50
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	1.6	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	90		70-130
dibromofluoromethane	95		70-130

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 03/22/17 07:58

Analyst: MM

TCLP/SPLP Extraction Date: 03/21/17 14:20

Extraction Date: 03/21/17 14:20

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 06 Batch: WG987256-5					
Chloroform	ND		ug/l	7.5	1.6
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	90		70-130
dibromofluoromethane	95		70-130

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/21/17 09:14
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG987431-5					
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.15	0.020
1,4-Dioxane	ND		mg/kg	2.0	0.72
1,2-Dibromoethane	ND		mg/kg	0.15	0.010
Methylene chloride	0.091	J	mg/kg	0.25	0.082
1,1-Dichloroethane	ND		mg/kg	0.075	0.014
Chloroform	ND		mg/kg	0.075	0.018
Carbon tetrachloride	ND		mg/kg	0.050	0.017
1,2-Dichloropropane	ND		mg/kg	0.18	0.011
Dibromochloromethane	ND		mg/kg	0.050	0.0088
1,1,2-Trichloroethane	ND		mg/kg	0.075	0.016
2-Chloroethylvinyl ether	ND		mg/kg	1.0	0.031
Tetrachloroethene	ND		mg/kg	0.050	0.015
Chlorobenzene	ND		mg/kg	0.050	0.017
Trichlorofluoromethane	ND		mg/kg	0.25	0.021
1,2-Dichloroethane	ND		mg/kg	0.050	0.012
1,1,1-Trichloroethane	ND		mg/kg	0.050	0.018
Bromodichloromethane	ND		mg/kg	0.050	0.015
trans-1,3-Dichloropropene	ND		mg/kg	0.050	0.010
cis-1,3-Dichloropropene	ND		mg/kg	0.050	0.012
1,3-Dichloropropene, Total	ND		mg/kg	0.050	0.010
1,1-Dichloropropene	ND		mg/kg	0.25	0.016
Bromoform	ND		mg/kg	0.20	0.012
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.050	0.015
Benzene	ND		mg/kg	0.050	0.0096
Toluene	ND		mg/kg	0.075	0.0098
Ethylbenzene	ND		mg/kg	0.050	0.0085
Chloromethane	ND		mg/kg	0.25	0.022
Bromomethane	0.034	J	mg/kg	0.10	0.017
Vinyl chloride	ND		mg/kg	0.10	0.016

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/21/17 09:14
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG987431-5					
Chloroethane	ND		mg/kg	0.10	0.016
1,1-Dichloroethene	ND		mg/kg	0.050	0.019
trans-1,2-Dichloroethene	ND		mg/kg	0.075	0.012
Trichloroethene	ND		mg/kg	0.050	0.015
1,2-Dichlorobenzene	ND		mg/kg	0.25	0.0091
1,3-Dichlorobenzene	ND		mg/kg	0.25	0.011
1,4-Dichlorobenzene	ND		mg/kg	0.25	0.0091
Methyl tert butyl ether	ND		mg/kg	0.10	0.0076
p/m-Xylene	ND		mg/kg	0.10	0.018
o-Xylene	ND		mg/kg	0.10	0.017
Xylene (Total)	ND		mg/kg	0.10	0.017
cis-1,2-Dichloroethene	ND		mg/kg	0.050	0.017
1,2-Dichloroethene (total)	ND		mg/kg	0.050	0.012
Dibromomethane	ND		mg/kg	0.50	0.012
1,4-Dichlorobutane	ND		mg/kg	0.50	0.0082
1,2,3-Trichloropropane	ND		mg/kg	0.50	0.0088
Styrene	ND		mg/kg	0.10	0.020
Dichlorodifluoromethane	ND		mg/kg	0.50	0.025
Acetone	0.13	J	mg/kg	1.8	0.11
Carbon disulfide	ND		mg/kg	0.50	0.055
2-Butanone	ND		mg/kg	0.50	0.034
Vinyl acetate	ND		mg/kg	0.50	0.0076
4-Methyl-2-pentanone	ND		mg/kg	0.50	0.012
2-Hexanone	ND		mg/kg	0.50	0.033
Ethyl methacrylate	ND		mg/kg	0.50	0.0084
Acrolein	ND		mg/kg	1.2	0.40
Acrylonitrile	ND		mg/kg	0.20	0.026
Bromochloromethane	ND		mg/kg	0.25	0.018
Tetrahydrofuran	ND		mg/kg	1.0	0.050

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/21/17 09:14
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG987431-5					
2,2-Dichloropropane	ND		mg/kg	0.25	0.022
1,3-Dichloropropane	ND		mg/kg	0.25	0.0092
1,1,1,2-Tetrachloroethane	ND		mg/kg	0.050	0.016
Bromobenzene	ND		mg/kg	0.25	0.011
n-Butylbenzene	ND		mg/kg	0.050	0.011
sec-Butylbenzene	ND		mg/kg	0.050	0.011
tert-Butylbenzene	ND		mg/kg	0.25	0.012
o-Chlorotoluene	ND		mg/kg	0.25	0.011
p-Chlorotoluene	ND		mg/kg	0.25	0.0092
Hexachlorobutadiene	ND		mg/kg	0.25	0.017
Isopropylbenzene	ND		mg/kg	0.050	0.0097
p-Isopropyltoluene	ND		mg/kg	0.050	0.010
Naphthalene	ND		mg/kg	0.25	0.0069
n-Propylbenzene	ND		mg/kg	0.050	0.011
1,2,3-Trichlorobenzene	ND		mg/kg	0.25	0.012
1,2,4-Trichlorobenzene	ND		mg/kg	0.25	0.011
1,3,5-Trimethylbenzene	ND		mg/kg	0.25	0.0080
1,2,4-Trimethylbenzene	ND		mg/kg	0.25	0.0093
trans-1,4-Dichloro-2-butene	ND		mg/kg	0.25	0.020
Ethyl ether	ND		mg/kg	0.25	0.013
Methyl Acetate	ND		mg/kg	0.20	0.023
Ethyl Acetate	ND		mg/kg	1.0	0.10
Isopropyl Ether	ND		mg/kg	0.20	0.014
Cyclohexane	ND		mg/kg	1.0	0.022
tert-Butyl Alcohol	ND		mg/kg	5.0	0.15
Ethyl-Tert-Butyl-Ether	ND		mg/kg	0.20	0.0089
Tertiary-Amyl Methyl Ether	ND		mg/kg	0.20	0.012
Methyl cyclohexane	ND		mg/kg	0.20	0.012
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	1.0	0.026

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/21/17 09:14
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG987431-5					
1,2,4,5-Tetramethylbenzene	ND		mg/kg	0.20	0.0078
1,4-Diethylbenzene	ND		mg/kg	0.20	0.20
4-Ethyltoluene	ND		mg/kg	0.20	0.012

Tentatively Identified Compounds

Total TIC Compounds	0.104	J	mg/kg
Unknown	0.104	J	mg/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 06 Batch: WG987256-3 WG987256-4								
Chloroform	98		100		70-130	2		20
Carbon tetrachloride	95		99		63-132	4		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	100		100		75-130	0		25
1,2-Dichloroethane	100		100		70-130	0		20
Benzene	100		110		70-130	10		25
Vinyl chloride	110		110		55-140	0		20
1,1-Dichloroethene	100		110		61-145	10		25
Trichloroethene	100		100		70-130	0		25
1,4-Dichlorobenzene	100		99		70-130	1		20
2-Butanone	97		110		63-138	13		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		95		70-130
Toluene-d8	104		100		70-130
4-Bromofluorobenzene	101		101		70-130
dibromofluoromethane	95		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG987431-3 WG987431-4								
1,2-Dibromo-3-chloropropane	74		72		40-160	3		30
1,4-Dioxane	83		83		40-160	0		30
1,2-Dibromoethane	87		88		70-130	1		30
Methylene chloride	103		105		70-130	2		30
1,1-Dichloroethane	103		106		70-130	3		30
Chloroform	98		101		70-130	3		30
Carbon tetrachloride	106		111		70-130	5		30
1,2-Dichloropropane	98		102		70-130	4		30
Dibromochloromethane	84		86		70-130	2		30
1,1,2-Trichloroethane	90		93		70-130	3		30
Tetrachloroethene	105		107		70-130	2		30
Chlorobenzene	97		101		70-130	4		30
Trichlorofluoromethane	124		128		40-160	3		30
1,2-Dichloroethane	93		96		70-130	3		30
1,1,1-Trichloroethane	106		109		70-130	3		30
Bromodichloromethane	93		96		70-130	3		30
trans-1,3-Dichloropropene	90		94		70-130	4		30
cis-1,3-Dichloropropene	97		98		40-160	1		30
1,1-Dichloropropene	112		118		70-130	5		30
Bromoform	78		80		40-160	3		30
1,1,2,2-Tetrachloroethane	86		86		40-160	0		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG987431-3 WG987431-4								
Benzene	101		104		70-130	3		30
Toluene	100		104		70-130	4		30
Ethylbenzene	101		106		70-130	5		30
Chloromethane	96		97		40-160	1		30
Bromomethane	102		107		40-160	5		30
Vinyl chloride	113		121		70-130	7		30
Chloroethane	114		118		40-160	3		30
1,1-Dichloroethene	97		103		70-130	6		30
trans-1,2-Dichloroethene	102		106		70-130	4		30
Trichloroethene	102		106		70-130	4		30
1,2-Dichlorobenzene	93		94		70-130	1		30
1,3-Dichlorobenzene	97		100		70-130	3		30
1,4-Dichlorobenzene	94		98		70-130	4		30
Methyl tert butyl ether	88		88		70-130	0		30
p/m-Xylene	101		105		70-130	4		30
o-Xylene	99		102		70-130	3		30
cis-1,2-Dichloroethene	99		101		70-130	2		30
Dibromomethane	90		92		70-130	2		30
1,4-Dichlorobutane	88		88		70-130	0		30
1,2,3-Trichloropropane	84		85		70-130	1		30
Styrene	98		101		40-160	3		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG987431-3 WG987431-4								
Dichlorodifluoromethane	118		126		40-160	7		30
Acetone	92		84		40-160	9		30
Carbon disulfide	72		74		40-160	3		30
2-Butanone	82		82		40-160	0		30
Vinyl acetate	80		80		70-130	0		30
4-Methyl-2-pentanone	78		77		40-160	1		30
2-Hexanone	66		68		40-160	3		30
Ethyl methacrylate	83		87		70-130	5		30
Acrolein	80		80		40-160	0		30
Acrylonitrile	81		80		70-130	1		30
Bromochloromethane	95		96		70-130	1		30
Tetrahydrofuran	77		74		70-130	4		30
2,2-Dichloropropane	103		109		40-160	6		30
1,3-Dichloropropane	92		94		70-130	2		30
1,1,1,2-Tetrachloroethane	91		95		70-130	4		30
Bromobenzene	94		95		70-130	1		30
n-Butylbenzene	108		113		70-130	5		30
sec-Butylbenzene	105		109		70-130	4		30
tert-Butylbenzene	100		105		70-130	5		30
o-Chlorotoluene	102		103		70-130	1		30
p-Chlorotoluene	98		103		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG987431-3 WG987431-4								
Hexachlorobutadiene	102		109		70-130	7		30
Isopropylbenzene	103		105		70-130	2		30
p-Isopropyltoluene	103		106		70-130	3		30
Naphthalene	77		80		40-160	4		30
n-Propylbenzene	105		110		70-130	5		30
1,2,3-Trichlorobenzene	86		91		70-130	6		30
1,2,4-Trichlorobenzene	92		96		70-130	4		30
1,3,5-Trimethylbenzene	102		105		70-130	3		30
1,2,4-Trimethylbenzene	100		102		70-130	2		30
trans-1,4-Dichloro-2-butene	74		77		70-130	4		30
Ethyl ether	109		107		70-130	2		30
Methyl Acetate	79		79		70-130	0		30
Ethyl Acetate	80		78		70-130	3		30
Isopropyl Ether	92		93		70-130	1		30
Cyclohexane	118		122		70-130	3		30
tert-Butyl Alcohol	72		69		40-160	4		30
Ethyl-Tert-Butyl-Ether	94		94		70-130	0		30
Tertiary-Amyl Methyl Ether	92		91		70-130	1		30
Methyl cyclohexane	122		126		70-130	3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	102		108		70-130	6		30
1,2,4,5-Tetramethylbenzene	95		98		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG987431-3 WG987431-4								
1,4-Diethylbenzene	102		106		70-130	4		30
4-Ethyltoluene	104		105		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		92		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	102		99		70-130
Dibromofluoromethane	99		97		70-130

SEMIVOLATILES

Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-06
Client ID: B-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/20/17 05:24
Analyst: RC
Percent Solids: 89%

Date Collected: 03/17/17 12:50
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1.2		mg/kg	0.15	0.015	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.017	1
Hexachlorobenzene	ND		mg/kg	0.053	0.017	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.066	0.022	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.14	0.047	1
2,4-Dinitrotoluene	ND		mg/kg	0.091	0.030	1
2,6-Dinitrotoluene	ND		mg/kg	0.072	0.024	1
Fluoranthene	0.76		mg/kg	0.11	0.021	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.015	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.021	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.017	1
Hexachlorobutadiene	ND		mg/kg	0.068	0.023	1
Hexachlorocyclopentadiene	ND		mg/kg	0.52	0.12	1
Hexachloroethane	ND		mg/kg	0.089	0.030	1
Isophorone	ND		mg/kg	0.062	0.020	1
Naphthalene	3.5		mg/kg	0.18	0.022	1
Nitrobenzene	ND		mg/kg	0.081	0.027	1
NDPA/DPA	ND		mg/kg	0.045	0.015	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.046	0.015	1
Bis(2-ethylhexyl)phthalate	40.	E	mg/kg	0.18	0.019	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.024	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.016	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.057	1
Diethyl phthalate	ND		mg/kg	0.18	0.017	1
Dimethyl phthalate	ND		mg/kg	0.18	0.018	1
Benzo(a)anthracene	0.17		mg/kg	0.062	0.021	1
Benzo(a)pyrene	0.12	J	mg/kg	0.13	0.045	1
Benzo(b)fluoranthene	0.17		mg/kg	0.046	0.015	1
Benzo(k)fluoranthene	0.032	J	mg/kg	0.038	0.013	1
Chrysene	0.19		mg/kg	0.11	0.019	1

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-06

Date Collected: 03/17/17 12:50

Client ID: B-COMP

Date Received: 03/17/17

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthylene	ND		mg/kg	0.15	0.020	1
Anthracene	0.59		mg/kg	0.11	0.016	1
Benzo(ghi)perylene	0.068	J	mg/kg	0.15	0.022	1
Fluorene	1.8		mg/kg	0.18	0.018	1
Phenanthrene	4.1		mg/kg	0.11	0.013	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.064	0.021	1
Indeno(1,2,3-cd)pyrene	0.077		mg/kg	0.077	0.026	1
Pyrene	0.98		mg/kg	0.11	0.016	1
4-Chloroaniline	ND		mg/kg	0.18	0.021	1
2-Nitroaniline	ND		mg/kg	0.18	0.034	1
3-Nitroaniline	ND		mg/kg	0.18	0.034	1
4-Nitroaniline	ND		mg/kg	0.18	0.076	1
Dibenzofuran	ND		mg/kg	0.18	0.016	1
2-Methylnaphthalene	8.5	E	mg/kg	0.22	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.10	0.035	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.027	1
2-Chlorophenol	ND		mg/kg	0.060	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.088	0.029	1
2,4-Dimethylphenol	ND		mg/kg	0.17	0.058	1
2-Nitrophenol	ND		mg/kg	0.40	0.030	1
2,4-Dinitrophenol	ND		mg/kg	0.26	0.085	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.26	0.088	1
Pentachlorophenol	ND		mg/kg	0.12	0.040	1
Phenol	ND		mg/kg	0.18	0.022	1
2-Methylphenol	ND		mg/kg	0.18	0.028	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.26	0.026	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.035	1
Carbazole	ND		mg/kg	0.18	0.012	1
4-Nitrophenol	ND		mg/kg	0.26	0.051	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.020	1
Benzaldehyde	ND		mg/kg	0.24	0.028	1
Caprolactam	ND		mg/kg	0.18	0.039	1
Acetophenone	ND		mg/kg	0.18	0.019	1
Biphenyl	ND		mg/kg	0.42	0.042	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.019	1
Atrazine	ND		mg/kg	0.15	0.064	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.037	1

Project Name: KINGS PLAZA - AREA B**Lab Number:** L1708261**Project Number:** 15026**Report Date:** 03/27/17**SAMPLE RESULTS**

Lab ID: L1708261-06

Date Collected: 03/17/17 12:50

Client ID: B-COMP

Date Received: 03/17/17

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Tentatively Identified Compounds

Total TIC Compounds	70.3	J	mg/kg	1
Unknown Naphthalene	7.18	J	mg/kg	1
Unknown	3.80	J	mg/kg	1
Unknown Naphthalene	3.14	J	mg/kg	1
Unknown Naphthalene	3.17	J	mg/kg	1
Unknown Naphthalene	4.21	J	mg/kg	1
Unknown Naphthalene	4.75	J	mg/kg	1
Unknown Alkane	6.89	J	mg/kg	1
Unknown Alkane	9.61	J	mg/kg	1
Unknown Naphthalene	2.75	J	mg/kg	1
Unknown Naphthalene	6.10	J	mg/kg	1
Unknown Naphthalene	2.62	J	mg/kg	1
Unknown Naphthalene	4.07	J	mg/kg	1
Unknown Naphthalene	4.60	J	mg/kg	1
Unknown Naphthalene	4.35	J	mg/kg	1
Unknown	3.03	J	mg/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		30-130
Phenol-d6	82		30-130
Nitrobenzene-d5	124		30-130
2-Fluorobiphenyl	69		30-130
2,4,6-Tribromophenol	86		30-130
4-Terphenyl-d14	76		30-130

Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-06 D
Client ID: B-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/21/17 16:53
Analyst: CB
Percent Solids: 89%

Date Collected: 03/17/17 12:50
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Bis(2-ethylhexyl)phthalate	38.		mg/kg	1.8	0.19	10
2-Methylnaphthalene	8.0		mg/kg	2.2	0.19	10

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/19/17 23:29
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG986432-1					
Acenaphthene	ND		mg/kg	0.13	0.014
2-Chloronaphthalene	ND		mg/kg	0.16	0.015
Hexachlorobenzene	ND		mg/kg	0.047	0.015
Bis(2-chloroethyl)ether	ND		mg/kg	0.058	0.020
3,3'-Dichlorobenzidine	ND		mg/kg	0.12	0.042
2,4-Dinitrotoluene	ND		mg/kg	0.081	0.027
2,6-Dinitrotoluene	ND		mg/kg	0.064	0.021
Fluoranthene	ND		mg/kg	0.097	0.019
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.014
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.19	0.019
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.015
Hexachlorobutadiene	ND		mg/kg	0.060	0.020
Hexachlorocyclopentadiene	ND		mg/kg	0.46	0.10
Hexachloroethane	ND		mg/kg	0.079	0.026
Isophorone	ND		mg/kg	0.054	0.018
Naphthalene	ND		mg/kg	0.16	0.020
Nitrobenzene	ND		mg/kg	0.072	0.024
NDPA/DPA	ND		mg/kg	0.040	0.013
n-Nitrosodi-n-propylamine	ND		mg/kg	0.041	0.014
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.16	0.017
Butyl benzyl phthalate	ND		mg/kg	0.16	0.022
Di-n-butylphthalate	ND		mg/kg	0.16	0.014
Di-n-octylphthalate	ND		mg/kg	0.16	0.051
Diethyl phthalate	ND		mg/kg	0.16	0.015
Dimethyl phthalate	ND		mg/kg	0.16	0.016
Benzo(a)anthracene	ND		mg/kg	0.054	0.018
Benzo(a)pyrene	ND		mg/kg	0.12	0.040
Benzo(b)fluoranthene	ND		mg/kg	0.041	0.014
Benzo(k)fluoranthene	ND		mg/kg	0.034	0.011

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/19/17 23:29
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG986432-1					
Chrysene	ND		mg/kg	0.097	0.017
Acenaphthylene	ND		mg/kg	0.13	0.018
Anthracene	ND		mg/kg	0.097	0.014
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019
Fluorene	ND		mg/kg	0.16	0.016
Phenanthrene	ND		mg/kg	0.097	0.012
Dibenzo(a,h)anthracene	ND		mg/kg	0.056	0.019
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.068	0.023
Pyrene	ND		mg/kg	0.097	0.014
4-Chloroaniline	ND		mg/kg	0.16	0.019
2-Nitroaniline	ND		mg/kg	0.16	0.030
3-Nitroaniline	ND		mg/kg	0.16	0.031
4-Nitroaniline	ND		mg/kg	0.16	0.067
Dibenzofuran	ND		mg/kg	0.16	0.014
2-Methylnaphthalene	ND		mg/kg	0.19	0.017
2,4,6-Trichlorophenol	ND		mg/kg	0.092	0.031
p-Chloro-m-cresol	ND		mg/kg	0.16	0.024
2-Chlorophenol	ND		mg/kg	0.054	0.018
2,4-Dichlorophenol	ND		mg/kg	0.078	0.026
2,4-Dimethylphenol	ND		mg/kg	0.15	0.052
2-Nitrophenol	ND		mg/kg	0.35	0.027
2,4-Dinitrophenol	ND		mg/kg	0.23	0.076
4,6-Dinitro-o-cresol	ND		mg/kg	0.23	0.078
Pentachlorophenol	ND		mg/kg	0.11	0.036
Phenol	ND		mg/kg	0.16	0.019
2-Methylphenol	ND		mg/kg	0.16	0.025
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.23	0.023
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.031
Carbazole	ND		mg/kg	0.16	0.010

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/19/17 23:29
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG986432-1					
4-Nitrophenol	ND		mg/kg	0.23	0.045
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.018
Benzaldehyde	ND		mg/kg	0.21	0.025
Caprolactam	ND		mg/kg	0.16	0.035
Acetophenone	ND		mg/kg	0.16	0.017
Biphenyl	ND		mg/kg	0.37	0.038
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017
Atrazine	ND		mg/kg	0.13	0.057
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033

Tentatively Identified Compounds

No Tentatively Identified Compounds ND mg/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		30-130
Phenol-d6	82		30-130
Nitrobenzene-d5	82		30-130
2-Fluorobiphenyl	81		30-130
2,4,6-Tribromophenol	93		30-130
4-Terphenyl-d14	93		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG986432-2 WG986432-3								
Acenaphthene	82		75		70-130	9		30
2-Chloronaphthalene	83		76		70-130	9		30
Hexachlorobenzene	81		74		70-130	9		30
Bis(2-chloroethyl)ether	80		72		70-130	11		30
3,3'-Dichlorobenzidine	60	Q	55	Q	70-130	9		30
2,4-Dinitrotoluene	85		80		70-130	6		30
2,6-Dinitrotoluene	97		89		70-130	9		30
Fluoranthene	87		80		70-130	8		30
4-Chlorophenyl phenyl ether	81		74		70-130	9		30
Bis(2-chloroisopropyl)ether	92		83		70-130	10		30
Bis(2-chloroethoxy)methane	88		79		70-130	11		30
Hexachlorobutadiene	74		67	Q	70-130	10		30
Hexachlorocyclopentadiene	75		69		20-160	8		30
Hexachloroethane	76		70		20-160	8		30
Isophorone	90		80		70-130	12		30
Naphthalene	78		72		70-130	8		30
Nitrobenzene	87		80		70-130	8		30
NDPA/DPA	85		79		70-130	7		30
n-Nitrosodi-n-propylamine	89		82		70-130	8		30
Bis(2-ethylhexyl)phthalate	90		81		70-130	11		30
Butyl benzyl phthalate	88		82		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG986432-2 WG986432-3								
Di-n-butylphthalate	94		86		70-130	9		30
Di-n-octylphthalate	92		85		70-130	8		30
Diethyl phthalate	86		78		70-130	10		30
Dimethyl phthalate	87		79		70-130	10		30
Benzo(a)anthracene	85		78		70-130	9		30
Benzo(a)pyrene	90		86		70-130	5		30
Benzo(b)fluoranthene	88		84		70-130	5		30
Benzo(k)fluoranthene	85		81		70-130	5		30
Chrysene	83		77		70-130	8		30
Acenaphthylene	87		80		70-130	8		30
Anthracene	87		80		70-130	8		30
Benzo(ghi)perylene	86		79		70-130	8		30
Fluorene	84		78		70-130	7		30
Phenanthrene	83		76		70-130	9		30
Dibenzo(a,h)anthracene	85		78		70-130	9		30
Indeno(1,2,3-cd)pyrene	89		78		70-130	13		30
Pyrene	85		79		70-130	7		30
4-Chloroaniline	48		43		20-160	11		30
2-Nitroaniline	97		87		70-130	11		30
3-Nitroaniline	66	Q	62	Q	70-130	6		30
4-Nitroaniline	82		76		70-130	8		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG986432-2 WG986432-3								
Dibenzofuran	82		76		70-130	8		30
2-Methylnaphthalene	83		76		70-130	9		30
2,4,6-Trichlorophenol	97		86		70-130	12		30
p-Chloro-m-cresol	93		83		70-130	11		30
2-Chlorophenol	87		80		70-130	8		30
2,4-Dichlorophenol	91		83		70-130	9		30
2,4-Dimethylphenol	94		85		70-130	10		30
2-Nitrophenol	98		88		70-130	11		30
2,4-Dinitrophenol	64		57		20-160	12		30
4,6-Dinitro-o-cresol	88		81		70-130	8		30
Pentachlorophenol	74		67		20-160	10		30
Phenol	84		76		20-160	10		30
2-Methylphenol	87		79		70-130	10		30
3-Methylphenol/4-Methylphenol	90		81		20-160	11		30
2,4,5-Trichlorophenol	95		87		70-130	9		30
Carbazole	87		80		70-130	8		30
4-Nitrophenol	93		86		20-160	8		30
4-Bromophenyl phenyl ether	83		73		70-130	13		30
Benzaldehyde	75		68		20-160	10		30
Caprolactam	107		96		20-160	11		30
Acetophenone	86		79		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG986432-2 WG986432-3								
Biphenyl	84		78		70-130	7		30
1,2,4,5-Tetrachlorobenzene	80		73		70-130	9		30
Atrazine	95		84		70-130	12		30
2,3,4,6-Tetrachlorophenol	87		81		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	87		80		30-130
Phenol-d6	90		81		30-130
Nitrobenzene-d5	89		82		30-130
2-Fluorobiphenyl	83		76		30-130
2,4,6-Tribromophenol	91		84		30-130
4-Terphenyl-d14	86		78		30-130

PETROLEUM HYDROCARBONS

Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-01 D
Client ID: B-1
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/23/17 19:41
Analyst: SR
Percent Solids: 82%

Date Collected: 03/17/17 12:50
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 13:49
Cleanup Method: NJDEP EPH
Cleanup Date: 03/23/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C12 Aliphatics	123		mg/kg	48.0	48.0	5
C12-C16 Aliphatics	830		mg/kg	32.0	32.0	5
C16-C21 Aliphatics	706		mg/kg	48.0	48.0	5
C21-C40 Aliphatics	ND		mg/kg	160	160.	5
C10-C12 Aromatics	ND		mg/kg	32.0	32.0	5
C12-C16 Aromatics	178		mg/kg	48.0	48.0	5
C16-C21 Aromatics	618		mg/kg	79.9	79.9	5
C21-C36 Aromatics	ND		mg/kg	128	128.	5
Total EPH	2460		mg/kg	576	576.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	69		40-140
o-Terphenyl	91		40-140
2-Fluorobiphenyl	83		40-140
2-Bromonaphthalene	81		40-140

Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-02 D
Client ID: B-2
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/23/17 20:22
Analyst: SR
Percent Solids: 77%

Date Collected: 03/17/17 12:50
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 13:49
Cleanup Method: NJDEP EPH
Cleanup Date: 03/23/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C12 Aliphatics	55.6		mg/kg	20.2	20.2	2
C12-C16 Aliphatics	254		mg/kg	13.4	13.4	2
C16-C21 Aliphatics	245		mg/kg	20.2	20.2	2
C21-C40 Aliphatics	143		mg/kg	67.3	67.3	2
C10-C12 Aromatics	19.6		mg/kg	13.4	13.4	2
C12-C16 Aromatics	92.3		mg/kg	20.2	20.2	2
C16-C21 Aromatics	279		mg/kg	33.6	33.6	2
C21-C36 Aromatics	68.3		mg/kg	53.8	53.8	2
Total EPH	1160		mg/kg	242	242.	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	68		40-140
o-Terphenyl	99		40-140
2-Fluorobiphenyl	83		40-140
2-Bromonaphthalene	81		40-140

Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-03 D
Client ID: B-3
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/23/17 21:02
Analyst: SR
Percent Solids: 81%

Date Collected: 03/17/17 12:50
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 13:49
Cleanup Method: NJDEP EPH
Cleanup Date: 03/23/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C12 Aliphatics	125		mg/kg	47.1	47.1	5
C12-C16 Aliphatics	390		mg/kg	31.4	31.4	5
C16-C21 Aliphatics	383		mg/kg	47.1	47.1	5
C21-C40 Aliphatics	161		mg/kg	157	157.	5
C10-C12 Aromatics	33.7		mg/kg	31.4	31.4	5
C12-C16 Aromatics	157		mg/kg	47.1	47.1	5
C16-C21 Aromatics	464		mg/kg	78.5	78.5	5
C21-C36 Aromatics	ND		mg/kg	126	126.	5
Total EPH	1710		mg/kg	565	565.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	70		40-140
o-Terphenyl	133		40-140
2-Fluorobiphenyl	100		40-140
2-Bromonaphthalene	100		40-140

Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-04
Client ID: B-4
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/23/17 16:29
Analyst: SR
Percent Solids: 87%

Date Collected: 03/17/17 12:50
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						

Total EPH	28.6		mg/kg	26.9	26.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	104		40-140
o-Terphenyl	105		40-140

Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-05
Client ID: B-5
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/23/17 16:59
Analyst: SR
Percent Solids: 68%

Date Collected: 03/17/17 12:50
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab

Total EPH	1010		mg/kg	34.6	34.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	106		40-140
o-Terphenyl	107		40-140

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Method Blank Analysis Batch Quality Control

Analytical Method: 103,NJDEP EPH

Extraction Method: EPA 3546

Analytical Date: 03/20/17 13:08

Extraction Date: 03/19/17 13:49

Analyst: DG

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 04-05 Batch: WG986528-1					
Total EPH	ND		mg/kg	23.1	23.1

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	90		40-140
o-Terphenyl	91		40-140

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Method Blank Analysis Batch Quality Control

Analytical Method: 103,NJDEP EPH

Analytical Date: 03/23/17 17:40

Analyst: SR

Extraction Method: EPA 3546

Extraction Date: 03/19/17 13:49

Cleanup Method: NJDEP EPH

Cleanup Date: 03/23/17

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-03 Batch: WG987666-1					
C9-C12 Aliphatics	ND		mg/kg	7.71	7.71
C12-C16 Aliphatics	ND		mg/kg	5.14	5.14
C16-C21 Aliphatics	ND		mg/kg	7.71	7.71
C21-C40 Aliphatics	ND		mg/kg	25.7	25.7
C10-C12 Aromatics	ND		mg/kg	5.14	5.14
C12-C16 Aromatics	ND		mg/kg	7.71	7.71
C16-C21 Aromatics	ND		mg/kg	12.8	12.8
C21-C36 Aromatics	ND		mg/kg	20.6	20.6
Total EPH	ND		mg/kg	92.5	92.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	68		40-140
2-Fluorobiphenyl	85		40-140
2-Bromonaphthalene	86		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 04-05 Batch: WG986528-2 WG986528-3								
Total EPH	103		103		40-140	0		25
Nonane (C9)	78		78		40-140	0		25
Decane (C10)	86		86		40-140	0		25
Dodecane (C12)	88		88		40-140	0		25
Tetradecane (C14)	93		91		40-140	2		25
Hexadecane (C16)	96		95		40-140	1		25
Octadecane (C18)	96		95		40-140	1		25
Eicosane (C20)	97		98		40-140	1		25
Heneicosane (C21)	90		89		40-140	1		25
Docosane (C22)	97		96		40-140	1		25
Tetracosane (C24)	96		94		40-140	2		25
Hexacosane (C26)	94		93		40-140	1		25
Octacosane (C28)	93		92		40-140	1		25
Triacontane (C30)	94		94		40-140	0		25
Dotriacontane (C32)	97		96		40-140	1		25
Tetratriacontane (C34)	96		93		40-140	3		25
Hexatriacontane (C36)	96		98		40-140	2		25
Octatriacontane (C38)	96		96		40-140	0		25
Tetracontane (C40)	91		93		40-140	2		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 04-05 Batch: WG986528-2 WG986528-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	93		87		40-140
o-Terphenyl	92		90		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03 Batch: WG987666-2 WG987666-3								
C9-C12 Aliphatics	61		57		40-140	7		25
C12-C16 Aliphatics	80		66		40-140	19		25
C16-C21 Aliphatics	96		80		40-140	18		25
C21-C40 Aliphatics	77		67		40-140	14		25
C10-C12 Aromatics	71		64		40-140	10		25
C12-C16 Aromatics	50		48		40-140	4		25
C16-C21 Aromatics	86		77		40-140	11		25
C21-C36 Aromatics	75		68		40-140	10		25
Nonane (C9)	54		47		40-140	14		25
Decane (C10)	61		53		40-140	14		25
Dodecane (C12)	67		57		40-140	16		25
Tetradecane (C14)	70		58		40-140	19		25
Hexadecane (C16)	72		61		40-140	17		25
Octadecane (C18)	72		61		40-140	17		25
Eicosane (C20)	72		61		40-140	17		25
Heneicosane (C21)	71		60		40-140	17		25
Docosane (C22)	72		62		40-140	15		25
Tetracosane (C24)	72		61		40-140	17		25
Hexacosane (C26)	72		62		40-140	15		25
Octacosane (C28)	72		61		40-140	17		25
Triacontane (C30)	73		62		40-140	16		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03 Batch: WG987666-2 WG987666-3								
Dotriacontane (C32)	75		63		40-140	17		25
Tetratriacontane (C34)	73		61		40-140	18		25
Hexatriacontane (C36)	74		62		40-140	18		25
Octatriacontane (C38)	72		61		40-140	17		25
Tetracontane (C40)	69		59		40-140	16		25
Acenaphthene	73		66		40-140	10		25
Acenaphthylene	68		62		40-140	9		25
Anthracene	73		66		40-140	10		25
Benzo(a)anthracene	71		64		40-140	10		25
Benzo(a)pyrene	66		60		40-140	10		25
Benzo(b)fluoranthene	75		67		40-140	11		25
Benzo(ghi)perylene	66		58		40-140	13		25
Benzo(k)fluoranthene	71		64		40-140	10		25
Chrysene	73		66		40-140	10		25
Dibenzo(a,h)anthracene	70		63		40-140	11		25
Fluoranthene	73		66		40-140	10		25
Fluorene	72		66		40-140	9		25
Indeno(1,2,3-cd)Pyrene	66		60		40-140	10		25
2-Methylnaphthalene	65		60		40-140	8		25
Naphthalene	64		59		40-140	8		25
Phenanthrene	74		67		40-140	10		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03 Batch: WG987666-2 WG987666-3								
Pyrene	71		65		40-140	9		25
1,2,3-Trimethylbenzene	58		54		40-140	7		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	58		48		40-140
o-Terphenyl	69		61		40-140
2-Fluorobiphenyl	86		79		40-140
2-Bromonaphthalene	87		80		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1708261

Report Date: 03/27/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG987666-5 QC Sample: L1708261-02 Client ID: B-2						
C9-C12 Aliphatics	55.6	98.2	mg/kg	55	Q	50
C12-C16 Aliphatics	254	389	mg/kg	42		50
C16-C21 Aliphatics	245	366	mg/kg	40		50
C21-C40 Aliphatics	143	187	mg/kg	27		50
C10-C12 Aromatics	19.6	35.8	mg/kg	58	Q	50
C12-C16 Aromatics	92.3	135	mg/kg	38		50
C16-C21 Aromatics	279	382	mg/kg	31		50
C21-C36 Aromatics	68.3	ND	mg/kg	NC		50
Total EPH	1160	1590	mg/kg	32		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	68		63		40-140
o-Terphenyl	99		97		40-140
2-Fluorobiphenyl	83		81		40-140
2-Bromonaphthalene	81		84		40-140

PCBS

Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-06
Client ID: B-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/21/17 03:00
Analyst: HT
Percent Solids: 89%

Date Collected: 03/17/17 12:50
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 22:06
Cleanup Method: EPA 3665A
Cleanup Date: 03/20/17
Cleanup Method: EPA 3660B
Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0363	0.00286	1	A
Aroclor 1221	ND		mg/kg	0.0363	0.00334	1	A
Aroclor 1232	ND		mg/kg	0.0363	0.00425	1	A
Aroclor 1242	ND		mg/kg	0.0363	0.00444	1	A
Aroclor 1248	ND		mg/kg	0.0363	0.00306	1	A
Aroclor 1254	ND		mg/kg	0.0363	0.00298	1	A
Aroclor 1260	ND		mg/kg	0.0363	0.00276	1	A
Aroclor 1262	ND		mg/kg	0.0363	0.00180	1	A
Aroclor 1268	ND		mg/kg	0.0363	0.00526	1	A
PCBs, Total	ND		mg/kg	0.0363	0.00180	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 03/20/17 23:13
 Analyst: JA

Extraction Method: EPA 3546
 Extraction Date: 03/19/17 21:30
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/20/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 06 Batch: WG986560-1						
Aroclor 1016	ND		mg/kg	0.0331	0.00261	A
Aroclor 1221	ND		mg/kg	0.0331	0.00305	A
Aroclor 1232	ND		mg/kg	0.0331	0.00388	A
Aroclor 1242	ND		mg/kg	0.0331	0.00405	A
Aroclor 1248	ND		mg/kg	0.0331	0.00279	A
Aroclor 1254	ND		mg/kg	0.0331	0.00272	A
Aroclor 1260	ND		mg/kg	0.0331	0.00252	A
Aroclor 1262	ND		mg/kg	0.0331	0.00164	A
Aroclor 1268	ND		mg/kg	0.0331	0.00479	A
PCBs, Total	ND		mg/kg	0.0331	0.00164	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	73		30-150	B

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 06 Batch: WG986560-2 WG986560-3									
Aroclor 1016	103		102		40-140	1		30	A
Aroclor 1260	109		114		40-140	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		99		30-150	A
Decachlorobiphenyl	107		111		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		94		30-150	B
Decachlorobiphenyl	76		76		30-150	B

PESTICIDES

Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-06
Client ID: B-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/21/17 04:25
Analyst: DM
Percent Solids: 89%

Date Collected: 03/17/17 12:50
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 20:22
Cleanup Method: EPA 3620B
Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		mg/kg	0.00170	0.00033	1	A
Lindane	ND		mg/kg	0.00071	0.00031	1	A
Alpha-BHC	ND		mg/kg	0.00071	0.00020	1	A
Beta-BHC	ND		mg/kg	0.00170	0.00064	1	A
Heptachlor	ND		mg/kg	0.00085	0.00038	1	A
Aldrin	ND		mg/kg	0.00170	0.00060	1	B
Heptachlor epoxide	ND		mg/kg	0.00320	0.00095	1	A
Endrin	ND		mg/kg	0.00071	0.00029	1	A
Endrin aldehyde	ND		mg/kg	0.00213	0.00074	1	A
Endrin ketone	ND		mg/kg	0.00170	0.00043	1	A
Dieldrin	ND		mg/kg	0.00106	0.00053	1	A
4,4'-DDE	ND		mg/kg	0.00170	0.00039	1	A
4,4'-DDD	ND		mg/kg	0.00170	0.00060	1	A
4,4'-DDT	ND		mg/kg	0.00320	0.00137	1	A
Endosulfan I	ND		mg/kg	0.00170	0.00040	1	A
Endosulfan II	ND		mg/kg	0.00170	0.00057	1	A
Endosulfan sulfate	ND		mg/kg	0.00071	0.00033	1	A
Methoxychlor	ND		mg/kg	0.00320	0.00099	1	A
Toxaphene	ND		mg/kg	0.0320	0.00895	1	A
Chlordane	ND		mg/kg	0.0138	0.00565	1	A
cis-Chlordane	ND		mg/kg	0.00213	0.00059	1	A
trans-Chlordane	ND		mg/kg	0.00213	0.00056	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	106		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	91		30-150	A

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/21/17 02:32
 Analyst: RL

Extraction Method: EPA 3546
 Extraction Date: 03/19/17 20:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Pesticides by GC - Westborough Lab for sample(s): 06 Batch: WG986556-1						
Delta-BHC	ND		mg/kg	0.00152	0.00029	A
Lindane	ND		mg/kg	0.00063	0.00028	A
Alpha-BHC	ND		mg/kg	0.00063	0.00017	A
Beta-BHC	ND		mg/kg	0.00152	0.00057	A
Heptachlor	ND		mg/kg	0.00075	0.00034	A
Aldrin	ND		mg/kg	0.00152	0.00053	A
Heptachlor epoxide	ND		mg/kg	0.00284	0.00085	A
Endrin	ND		mg/kg	0.00063	0.00025	A
Endrin aldehyde	ND		mg/kg	0.00190	0.00066	A
Endrin ketone	ND		mg/kg	0.00152	0.00039	A
Dieldrin	ND		mg/kg	0.00094	0.00047	A
4,4'-DDE	ND		mg/kg	0.00152	0.00035	A
4,4'-DDD	ND		mg/kg	0.00152	0.00054	A
4,4'-DDT	ND		mg/kg	0.00284	0.00122	A
Endosulfan I	ND		mg/kg	0.00152	0.00035	A
Endosulfan II	ND		mg/kg	0.00152	0.00050	A
Endosulfan sulfate	ND		mg/kg	0.00063	0.00030	A
Methoxychlor	ND		mg/kg	0.00284	0.00088	A
Toxaphene	ND		mg/kg	0.0284	0.00796	A
Chlordane	ND		mg/kg	0.0123	0.00502	A
cis-Chlordane	ND		mg/kg	0.00190	0.00052	A
trans-Chlordane	ND		mg/kg	0.00190	0.00050	A

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/21/17 02:32
 Analyst: RL

Extraction Method: EPA 3546
 Extraction Date: 03/19/17 20:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL
Pesticides by GC - Westborough Lab for sample(s): 06 Batch: WG986556-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	102		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	118		30-150	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Pesticides by GC - Westborough Lab Associated sample(s): 06 Batch: WG986556-2 WG986556-3									
Delta-BHC	89		102		40-140	14		30	A
Lindane	89		101		40-140	13		30	A
Alpha-BHC	91		102		40-140	11		30	A
Beta-BHC	86		103		40-140	18		30	A
Heptachlor	88		97		40-140	10		30	A
Aldrin	91		101		40-140	10		30	A
Heptachlor epoxide	89		101		40-140	13		30	A
Endrin	108		123		40-140	13		30	A
Endrin aldehyde	79		88		40-140	11		30	A
Endrin ketone	91		103		40-140	12		30	A
Dieldrin	97		111		40-140	13		30	A
4,4'-DDE	92		104		40-140	12		30	A
4,4'-DDD	91		104		40-140	13		30	A
4,4'-DDT	102		115		40-140	12		30	A
Endosulfan I	88		97		40-140	10		30	A
Endosulfan II	86		97		40-140	12		30	A
Endosulfan sulfate	91		100		40-140	9		30	A
Methoxychlor	114		128		40-140	12		30	A
cis-Chlordane	82		92		40-140	11		30	A
trans-Chlordane	81		91		40-140	12		30	A

Lab Control Sample Analysis**Batch Quality Control****Project Name:** KINGS PLAZA - AREA B**Lab Number:** L1708261**Project Number:** 15026**Report Date:** 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 06 Batch: WG986556-2 WG986556-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		83		30-150	B
Decachlorobiphenyl	98		110		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		100		30-150	A
Decachlorobiphenyl	111		126		30-150	A

METALS

Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-06

Date Collected: 03/17/17 12:50

Client ID: B-COMP

Date Received: 03/17/17

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Matrix: Soil

TCLP/SPLP Ext. Date: 03/20/17 14:59

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	0.02	1	03/21/17 17:32	03/22/17 15:41	EPA 3015	1,6010C	AB
Barium, TCLP	0.25	J	mg/l	0.50	0.02	1	03/21/17 17:32	03/22/17 15:41	EPA 3015	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.10	0.01	1	03/21/17 17:32	03/22/17 15:41	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.20	0.02	1	03/21/17 17:32	03/22/17 15:41	EPA 3015	1,6010C	AB
Lead, TCLP	0.051		mg/l	0.500	0.027	1	03/21/17 17:32	03/22/17 15:41	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	03/21/17 12:08	03/21/17 22:16	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.50	0.04	1	03/21/17 17:32	03/22/17 15:41	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.10	0.03	1	03/21/17 17:32	03/22/17 15:41	EPA 3015	1,6010C	AB



Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-06

Date Collected: 03/17/17 12:50

Client ID: B-COMP

Date Received: 03/17/17

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3000		mg/kg	8.9	2.4	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Antimony, Total	3.3	J	mg/kg	4.4	0.34	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Arsenic, Total	4.4		mg/kg	0.89	0.18	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Barium, Total	330		mg/kg	0.89	0.16	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Beryllium, Total	0.24	J	mg/kg	0.44	0.03	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Cadmium, Total	1.5		mg/kg	0.89	0.09	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Calcium, Total	8900		mg/kg	8.9	3.1	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Chromium, Total	24		mg/kg	0.89	0.09	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Cobalt, Total	4.5		mg/kg	1.8	0.15	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Copper, Total	1000		mg/kg	0.89	0.23	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Iron, Total	16000		mg/kg	4.4	0.80	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Lead, Total	220		mg/kg	4.4	0.24	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Magnesium, Total	3800		mg/kg	8.9	1.4	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Manganese, Total	110		mg/kg	0.89	0.14	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Mercury, Total	0.04	J	mg/kg	0.07	0.02	1	03/21/17 06:25	03/21/17 12:50	EPA 7471B	1,7471B	BV
Nickel, Total	31		mg/kg	2.2	0.22	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Potassium, Total	510		mg/kg	220	13.	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Selenium, Total	0.36	J	mg/kg	1.8	0.23	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.89	0.25	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Sodium, Total	830		mg/kg	180	2.8	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.8	0.28	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Vanadium, Total	14		mg/kg	0.89	0.18	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB
Zinc, Total	790		mg/kg	4.4	0.26	2	03/20/17 20:08	03/21/17 23:58	EPA 3050B	1,6010C	AB



Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06 Batch: WG986782-1										
Aluminum, Total	ND		mg/kg	4.0	1.1	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Antimony, Total	ND		mg/kg	2.0	0.15	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Arsenic, Total	ND		mg/kg	0.40	0.08	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Barium, Total	ND		mg/kg	0.40	0.07	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Beryllium, Total	ND		mg/kg	0.20	0.01	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.40	0.04	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Calcium, Total	ND		mg/kg	4.0	1.4	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Chromium, Total	ND		mg/kg	0.40	0.04	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Cobalt, Total	ND		mg/kg	0.80	0.07	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Copper, Total	ND		mg/kg	0.40	0.10	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Iron, Total	0.50	J	mg/kg	2.0	0.36	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Lead, Total	ND		mg/kg	2.0	0.11	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Magnesium, Total	ND		mg/kg	4.0	0.62	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Manganese, Total	ND		mg/kg	0.40	0.06	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Nickel, Total	ND		mg/kg	1.0	0.10	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Potassium, Total	ND		mg/kg	100	5.8	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Selenium, Total	ND		mg/kg	0.80	0.10	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Silver, Total	ND		mg/kg	0.40	0.11	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Sodium, Total	ND		mg/kg	80	1.3	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Thallium, Total	ND		mg/kg	0.80	0.13	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Vanadium, Total	ND		mg/kg	0.40	0.08	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Zinc, Total	ND		mg/kg	2.0	0.12	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06 Batch: WG986829-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	03/21/17 06:25	03/21/17 12:25	1,7471B	BV



Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 06 Batch: WG986960-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	03/21/17 12:08	03/21/17 21:59	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 03/20/17 14:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 06 Batch: WG987051-1										
Arsenic, TCLP	ND		mg/l	1.0	0.02	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Barium, TCLP	0.03	J	mg/l	0.50	0.02	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.10	0.01	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.20	0.02	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Lead, TCLP	ND		mg/l	0.50	0.03	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Selenium, TCLP	ND		mg/l	0.50	0.04	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Silver, TCLP	ND		mg/l	0.10	0.03	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 03/20/17 14:59

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG986782-2 SRM Lot Number: D091-540								
Aluminum, Total	77		-		52-148	-		
Antimony, Total	146		-		1-200	-		
Arsenic, Total	103		-		80-121	-		
Barium, Total	96		-		84-117	-		
Beryllium, Total	99		-		83-117	-		
Cadmium, Total	96		-		83-117	-		
Calcium, Total	95		-		81-118	-		
Chromium, Total	98		-		80-119	-		
Cobalt, Total	97		-		84-115	-		
Copper, Total	92		-		82-117	-		
Iron, Total	100		-		47-154	-		
Lead, Total	96		-		82-118	-		
Magnesium, Total	87		-		77-123	-		
Manganese, Total	91		-		82-118	-		
Nickel, Total	93		-		83-117	-		
Potassium, Total	92		-		72-128	-		
Selenium, Total	90		-		79-121	-		
Silver, Total	96		-		75-124	-		
Sodium, Total	98		-		73-126	-		
Thallium, Total	85		-		80-121	-		
Vanadium, Total	96		-		78-122	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG986782-2 SRM Lot Number: D091-540					
Zinc, Total	98	-	82-118	-	
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG986829-2 SRM Lot Number: D091-540					
Mercury, Total	98	-	72-128	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 Batch: WG986960-2					
Mercury, TCLP	103	-	80-120	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 Batch: WG987051-2					
Arsenic, TCLP	100	-	75-125	-	20
Barium, TCLP	95	-	75-125	-	20
Cadmium, TCLP	98	-	75-125	-	20
Chromium, TCLP	90	-	75-125	-	20
Lead, TCLP	90	-	75-125	-	20
Selenium, TCLP	100	-	75-125	-	20
Silver, TCLP	94	-	75-125	-	20

INORGANICS & MISCELLANEOUS

Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-06
Client ID: B-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 12:50
Date Received: 03/17/17
Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	03/21/17 02:00	1,1030	SB



Project Name: KINGS PLAZA - AREA B**Project Number:** 15026**Lab Number:** L1708261**Report Date:** 03/27/17**SAMPLE RESULTS****Lab ID:** L1708261-01**Client ID:** B-1**Sample Location:** BROOKLYN, NY**Matrix:** Soil**Date Collected:** 03/17/17 12:50**Date Received:** 03/17/17**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI



Project Name: KINGS PLAZA - AREA B**Project Number:** 15026**Lab Number:** L1708261**Report Date:** 03/27/17**SAMPLE RESULTS****Lab ID:** L1708261-02**Client ID:** B-2**Sample Location:** BROOKLYN, NY**Matrix:** Soil**Date Collected:** 03/17/17 12:50**Date Received:** 03/17/17**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.0		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI



Project Name: KINGS PLAZA - AREA B**Project Number:** 15026**Lab Number:** L1708261**Report Date:** 03/27/17**SAMPLE RESULTS****Lab ID:** L1708261-03**Client ID:** B-3**Sample Location:** BROOKLYN, NY**Matrix:** Soil**Date Collected:** 03/17/17 12:50**Date Received:** 03/17/17**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI



Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-04
Client ID: B-4
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 12:50
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.3		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI



Project Name: KINGS PLAZA - AREA B**Project Number:** 15026**Lab Number:** L1708261**Report Date:** 03/27/17**SAMPLE RESULTS****Lab ID:** L1708261-05**Client ID:** B-5**Sample Location:** BROOKLYN, NY**Matrix:** Soil**Date Collected:** 03/17/17 12:50**Date Received:** 03/17/17**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.7		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI



Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

SAMPLE RESULTS

Lab ID: L1708261-06
Client ID: B-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 12:50
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.17	1	03/20/17 11:10	03/20/17 14:30	1,9010C/9012B	JO
pH (H)	8.1		SU	-	NA	1	-	03/18/17 10:20	1,9045D	MR
Cyanide, Reactive	ND		mg/kg	10	10.	1	03/20/17 22:00	03/20/17 23:12	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	10.	1	03/20/17 22:00	03/20/17 23:05	1,7.3	TL
Paint Filter Liquid	NEGATIVE		-	0	NA	1	-	03/20/17 18:05	1,9095B	AS



Project Name: KINGS PLAZA - AREA B

Lab Number: L1708261

Project Number: 15026

Report Date: 03/27/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG986613-1										
Cyanide, Total	ND		mg/kg	0.90	0.15	1	03/20/17 11:10	03/20/17 14:09	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG986753-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	03/20/17 22:00	03/20/17 23:09	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG986756-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	03/20/17 22:00	03/20/17 23:01	1,7.3	TL

Lab Control Sample Analysis**Batch Quality Control****Project Name:** KINGS PLAZA - AREA B**Project Number:** 15026**Lab Number:** L1708261**Report Date:** 03/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG986389-1								
pH	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG986613-2 WG986613-3								
Cyanide, Total	97		90		80-120	6		35
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG986753-2								
Cyanide, Reactive	61		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG986756-2								
Sulfide, Reactive	96		-		60-125	-		40

Project Name: KINGS PLAZA - AREA B

Project Number: 15026

Lab Number: L1708261

Report Date: 03/27/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 20-MAR-17 07:23

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1708261-01A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH(14),NJ-8260(14),TS(7)
L1708261-01X	Vial MeOH preserved split	A	N/A	2.1	Y	Absent	NJ-8260(14)
L1708261-01Y	Vial Water preserved split	A	N/A	2.1	Y	Absent	NJ-8260(14)
L1708261-01Z	Vial Water preserved split	A	N/A	2.1	Y	Absent	NJ-8260(14)
L1708261-02A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH(14),TS(7)
L1708261-03A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH(14),TS(7)
L1708261-04A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH-TPH-CAT2(14),TS(7)
L1708261-05A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH-TPH-CAT2(14),TS(7)
L1708261-06A	Glass 250ml/8oz unpreserved	A	N/A	2.1	Y	Absent	TCLP-EXT-ZHE(14)
L1708261-06B	Glass 500ml/16oz unpreserved	A	N/A	2.1	Y	Absent	HOLD- CONTINGENCY(14),IGNIT- 1030(14),REACTS(14),TCN- 9010(14),NJ-8082(14),NJ- 8270(14),TS(7),PH- 9045(1),PAINTF(),NJ- 8081(14),REACTCN(14)
L1708261-06C	Glass 60ml unpreserved split	A	N/A	2.1	Y	Absent	BE-TI(180),AS-TI(180),BA- TI(180),AG-TI(180),AL- TI(180),CR-TI(180),NI- TI(180),TL-TI(180),CU- TI(180),PB-TI(180),SB- TI(180),SE-TI(180),ZN- TI(180),CO-TI(180),V- TI(180),FE-TI(180),HG- T(28),MG-TI(180),MN- TI(180),CA-TI(180),CD- TI(180),K-TI(180),NA-TI(180)
L1708261-06U	Vial unpreserved Extracts	A	N/A	2.1	Y	Absent	TCLP-VOA(14)
L1708261-06V	Vial unpreserved Extracts	A	N/A	2.1	Y	Absent	TCLP-VOA(14)
L1708261-06X	Plastic 120ml HNO3 preserved Ext	A	<2	2.1	Y	Absent	CD-CI(180),AS-CI(180),BA- CI(180),HG-C(28),PB- CI(180),CR-CI(180),SE- CI(180),AG-CI(180)
L1708261-06X9	Tumble Vessel	A	N/A	2.1	Y	Absent	-

*Values in parentheses indicate holding time in days



Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers



Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: KINGS PLAZA - AREA B
Project Number: 15026

Lab Number: L1708261
Report Date: 03/27/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 10

Published Date: 1/16/2017 11:00:05 AM

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** NPW and SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**EPA 9012B:** NPW: Total Cyanide**EPA 9050A:** NPW: Specific Conductance**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****SM 2540D:** TSS**EPA 3005A** NPW**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.****Mansfield Facility:****Drinking Water****EPA 200.7:** Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW JERSEY CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>1</u> of <u>1</u>		Date Rec'd in Lab <u>3/18/17</u>		ALPHA Job # <u>L1708261</u>					
		Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>KINGS PLAZA - ANSA B</u> Project Location: <u>BROOKLYN NY</u> Project # <u>15026</u> (Use Project name as Project #) ☐		Deliverables ☐ NJ Full / Reduced ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☒ Other <u>RESULTS ONLY</u>		Billing Information ☒ Same as Client Info PO # <u>15026-DA</u>			
Client Information Client: <u>AWT ENVIRONMENTAL SVC.</u> Address: <u>PO Box 123</u> <u>SAYREVILLE NJ 08871</u> Phone: <u>732 613 1660</u> Fax: <u>732 613 1536</u> Email: <u>DANAGNOS@AWTENV.COM</u>		Project Manager: <u>DAVID ANAGNOS</u> ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Regulatory Requirement ☒ SRS Residential/Non Residential ☐ SRS Impact to Groundwater ☐ NJ Ground Water Quality Standards ☐ NJ IGW SPLP Leachate Criteria ☐ Other		Site Information Is this site impacted by Petroleum? Yes ☐ Petroleum Product:							
These samples have been previously analyzed by Alpha ☐		For EPH, selection is REQUIRED: ☐ Category 1 ☐ Category 2		For VOC, selection is REQUIRED: ☐ 1,4-Dioxane ☐ 8011		Other project specific requirements/comments: <u>CONTINGENCY INCLUDES: TCLP SEMI VO</u> <u>TCLP PEST/ITERB</u> <u>SEMI ANALYSIS</u> Please specify Metals or TAL.		ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottle	
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		HD3 TOTAL VO TCL/TCL-NO VO PCOA CHAN TCLP METALS+3 TCLP VOLATILES PAINT FILTER CONTINGENCY #			Sample Specific Comments
<u>08261 -01 B-1</u>		<u>03-17-17 12:50</u>		<u>S</u>		<u>R</u>		<u>✓</u>		<u>✓</u>			
<u>02 B-2</u>		<u>1</u>		<u>S</u>		<u>R</u>		<u>✓</u>		<u>✓</u>			
<u>03 B-3</u>		<u>1</u>		<u>S</u>		<u>R</u>		<u>✓</u>		<u>✓</u>			
<u>04 B-4</u>		<u>1</u>		<u>S</u>		<u>R</u>		<u>✓</u>		<u>✓</u>			
<u>05 B-5</u>		<u>1</u>		<u>S</u>		<u>R</u>		<u>✓</u>		<u>✓</u>			
<u>06 B-comp</u>		<u>1</u>		<u>S</u>		<u>R</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type		Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)			
Relinquished By: <u>B. Johnson</u>		Date/Time: <u>03-17-17</u>		Received By: <u>B. Johnson AAL</u>		Date/Time: <u>3/17/17 18:00</u>							
<u>B. Johnson</u>		<u>3/17/17 19:50</u>		<u>H. Vlachos</u>		<u>3-17-17 21:30</u>							
<u>H. Vlachos</u>		<u>3-17-17 01:30</u>		<u>Samuelle Math</u>		<u>3/18/17 01:30</u>							

JOB: L1708264 REPORT STYLE: Data Usability Report
0010: Alpha Analytical Report Cover Page - OK
0015: Sample Cross Reference Summary - OK
0060: Case Narrative - OK
0100: Volatiles Cover Page - OK
0110: Volatiles Sample Results - OK
0120: Volatiles Method Blank Report - OK
0130: Volatiles LCS Report - OK
0180: Semivolatiles Cover Page - OK
0190: Semivolatiles Sample Results - OK
0200: Semivolatiles Method Blank Report - OK
0210: Semivolatiles LCS Report - OK
0290: Petroleum Cover Page - OK
0300: Petroleum Sample Results - OK
0310: Petroleum Method Blank Report - OK
0320: Petroleum LCS Report - OK
0700: PCBs Cover Page - OK
0710: PCBs Sample Results - OK
0720: PCBs Method Blank Report - OK
0730: PCBs LCS Report - OK
0900: Pesticides Cover Page - OK
0910: Pesticides Sample Results - OK
0920: Pesticides Method Blank Report - OK
0930: Pesticides LCS Report - OK
1005: Metals Sample Results - OK
1010: Metals Method Blank Report - OK
1020: Metals LCS Report - OK
1180: Inorganics Cover Page - OK
1190: Ignitability Results - OK
1200: Wet Chemistry Sample Results - OK
1210: Wet Chemistry Method Blank Report - OK
1220: Wet Chemistry LCS Report - OK
1250: Wet Chemistry Duplicate Report - OK
5100: Sample Receipt & Container Information Report - OK
5200: Glossary - OK
5400: References - OK



ANALYTICAL REPORT

Lab Number:	L1708264
Client:	AWT Environmental Services, Inc. P.O. Box 128 Sayreville, NJ 08871
ATTN:	David Anagnos
Phone:	(732) 613-1660
Project Name:	KINGS PLAZA - AREA C
Project Number:	15026
Report Date:	03/24/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1708264-01	C-1	SOIL	BROOKLYN NY	03/17/17 12:30	03/17/17
L1708264-02	C-2	SOIL	BROOKLYN NY	03/17/17 12:30	03/17/17
L1708264-03	C-3	SOIL	BROOKLYN NY	03/17/17 12:30	03/17/17
L1708264-04	C-4	SOIL	BROOKLYN NY	03/17/17 12:30	03/17/17
L1708264-05	C-5	SOIL	BROOKLYN NY	03/17/17 12:30	03/17/17
L1708264-06	C-COMP	SOIL	BROOKLYN NY	03/17/17 12:30	03/17/17

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

Case Narrative (continued)

Report Submission

This is a partial report. A final report will be issued as soon as the results of all requested analyses become available.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

The WG986909-5 Method Blank, associated with L1708264-01, has concentrations above the reporting limits for chloromethane and bromomethane. Since the sample was non-detect to the RL for these target analytes, no further actions were taken. The results of the original analysis are reported.

TCLP Volatiles

L1708264-06 and WG987809-5: The ambient temperature of the area in which the TCLP/SPLP extraction was performed was outside the required 21-25 degrees C temperature range.

Semivolatile Organics

L1708264-06: One or more surrogates failed to meet the recovery limits. Please refer to the sample results and/or QC section of the report for specific details.

WG986432-2/-3: One or more compounds failed to meet the recovery and/or RPD limits. Please refer to the QC section of the report for specific details.

NJ EPH (Total)

WG986528: The Matrix Spike and Laboratory Duplicate required fractionation; therefore, the results are not reported for this analysis.

Pesticides

L1708264-06: One or more dual column RPDs are above the acceptance criteria. Please refer to the

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

Case Narrative (continued)

sample results and/or QC section of the report for specific details.

Total Metals

L1708264-06: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

pH

The WG986389-2 Laboratory Duplicate RPD (6%), performed on L1708264-06, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Cristin Walker

Title: Technical Director/Representative

Date: 03/24/17

ORGANICS

VOLATILES

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-01
Client ID: C-1
Sample Location: BROOKLYN NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/20/17 20:18
Analyst: MV
Percent Solids: 87%

Date Collected: 03/17/17 12:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0031	0.00042	1
1,4-Dioxane	ND		mg/kg	0.042	0.015	1
1,2-Dibromoethane	ND		mg/kg	0.0031	0.00021	1
Methylene chloride	ND		mg/kg	0.0052	0.0017	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00028	1
Chloroform	ND		mg/kg	0.0016	0.00039	1
Carbon tetrachloride	ND		mg/kg	0.0010	0.00036	1
1,2-Dichloropropane	ND		mg/kg	0.0037	0.00024	1
Dibromochloromethane	ND		mg/kg	0.0010	0.00018	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00033	1
Tetrachloroethene	0.0029		mg/kg	0.0010	0.00032	1
Chlorobenzene	ND		mg/kg	0.0010	0.00036	1
Trichlorofluoromethane	ND		mg/kg	0.0052	0.00044	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1
1,1,1-Trichloroethane	ND		mg/kg	0.0010	0.00037	1
Bromodichloromethane	ND		mg/kg	0.0010	0.00032	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00022	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00024	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0010	0.00022	1
Bromoform	ND		mg/kg	0.0042	0.00025	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00031	1
Benzene	ND		mg/kg	0.0010	0.00020	1
Toluene	0.00028	J	mg/kg	0.0016	0.00020	1
Ethylbenzene	ND		mg/kg	0.0010	0.00018	1
Chloromethane	ND		mg/kg	0.0052	0.00046	1
Bromomethane	ND		mg/kg	0.0021	0.00035	1
Vinyl chloride	0.0026		mg/kg	0.0021	0.00033	1
Chloroethane	ND		mg/kg	0.0021	0.00033	1
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00039	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00025	1

Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-01
 Client ID: C-1
 Sample Location: BROOKLYN NY

Date Collected: 03/17/17 12:30
 Date Received: 03/17/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.00062	J	mg/kg	0.0010	0.00032	1
1,2-Dichlorobenzene	ND		mg/kg	0.0052	0.00019	1
1,3-Dichlorobenzene	ND		mg/kg	0.0052	0.00023	1
1,4-Dichlorobenzene	ND		mg/kg	0.0052	0.00019	1
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00016	1
p/m-Xylene	ND		mg/kg	0.0021	0.00037	1
o-Xylene	ND		mg/kg	0.0021	0.00035	1
Xylene (Total)	ND		mg/kg	0.0021	0.00035	1
cis-1,2-Dichloroethene	0.0041		mg/kg	0.0010	0.00036	1
1,2-Dichloroethene (total)	0.0041		mg/kg	0.0010	0.00025	1
Styrene	ND		mg/kg	0.0021	0.00042	1
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00052	1
Acetone	0.16		mg/kg	0.038	0.0024	1
Carbon disulfide	0.0014	J	mg/kg	0.010	0.0012	1
2-Butanone	0.020		mg/kg	0.010	0.00072	1
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.00026	1
2-Hexanone	ND		mg/kg	0.010	0.00070	1
Bromochloromethane	ND		mg/kg	0.0052	0.00037	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00020	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0052	0.00026	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0052	0.00022	1
Methyl Acetate	ND		mg/kg	0.0042	0.00048	1
Cyclohexane	ND		mg/kg	0.021	0.00045	1
Methyl cyclohexane	0.0017	J	mg/kg	0.0042	0.00025	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.021	0.00054	1

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-01
Client ID: C-1
Sample Location: BROOKLYN NY

Date Collected: 03/17/17 12:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Volatile Organics by GC/MS - Westborough Lab

Tentatively Identified Compounds

Total TIC Compounds	0.347	J	mg/kg	1
2-Octanone	0.039	NJ	mg/kg	1
Unknown	0.017	J	mg/kg	1
Unknown Aromatic	0.023	J	mg/kg	1
Unknown	0.014	J	mg/kg	1
Unknown Naphthalene	0.015	J	mg/kg	1
Unknown	0.038	J	mg/kg	1
Unknown Aromatic	0.012	J	mg/kg	1
2-Octanol, (R)-	0.015	NJ	mg/kg	1
Unknown	0.017	J	mg/kg	1
Unknown Benzene	0.014	J	mg/kg	1
Unknown	0.041	J	mg/kg	1
Unknown Aromatic	0.016	J	mg/kg	1
Unknown Benzene	0.032	J	mg/kg	1
Acenaphthene	0.041	NJ	mg/kg	1
Unknown	0.014	J	mg/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	98		70-130

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-06
Client ID: C-COMP
Sample Location: BROOKLYN NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/23/17 12:36
Analyst: KD
Percent Solids: 88%
TCLP/SPLP Ext. Date: 03/22/17 14:13

Date Collected: 03/17/17 12:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	1.6	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	100		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	5.2		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
dibromofluoromethane	100		70-130

Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/20/17 13:30
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG986909-5					
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.00040
1,4-Dioxane	ND		mg/kg	0.040	0.014
1,2-Dibromoethane	ND		mg/kg	0.0030	0.00020
Methylene chloride	0.0020	J	mg/kg	0.0050	0.0016
1,1-Dichloroethane	ND		mg/kg	0.0015	0.00027
Chloroform	ND		mg/kg	0.0015	0.00037
Carbon tetrachloride	ND		mg/kg	0.0010	0.00034
1,2-Dichloropropane	ND		mg/kg	0.0035	0.00023
Dibromochloromethane	ND		mg/kg	0.0010	0.00018
1,1,2-Trichloroethane	ND		mg/kg	0.0015	0.00031
2-Chloroethylvinyl ether	ND		mg/kg	0.020	0.00062
Tetrachloroethene	ND		mg/kg	0.0010	0.00030
Chlorobenzene	ND		mg/kg	0.0010	0.00035
Trichlorofluoromethane	ND		mg/kg	0.0050	0.00042
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00025
1,1,1-Trichloroethane	ND		mg/kg	0.0010	0.00035
Bromodichloromethane	ND		mg/kg	0.0010	0.00031
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00021
cis-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00023
1,3-Dichloropropene, Total	ND		mg/kg	0.0010	0.00021
1,1-Dichloropropene	ND		mg/kg	0.0050	0.00033
Bromoform	ND		mg/kg	0.0040	0.00024
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00030
Benzene	ND		mg/kg	0.0010	0.00019
Toluene	0.00021	J	mg/kg	0.0015	0.00020
Ethylbenzene	ND		mg/kg	0.0010	0.00017
Chloromethane	0.010		mg/kg	0.0050	0.00044
Bromomethane	0.012		mg/kg	0.0020	0.00034
Vinyl chloride	ND		mg/kg	0.0020	0.00032

Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/20/17 13:30
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG986909-5					
Chloroethane	ND		mg/kg	0.0020	0.00032
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00037
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00024
Trichloroethene	ND		mg/kg	0.0010	0.00030
1,2-Dichlorobenzene	ND		mg/kg	0.0050	0.00018
1,3-Dichlorobenzene	ND		mg/kg	0.0050	0.00022
1,4-Dichlorobenzene	ND		mg/kg	0.0050	0.00018
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00015
p/m-Xylene	ND		mg/kg	0.0020	0.00035
o-Xylene	ND		mg/kg	0.0020	0.00034
Xylene (Total)	ND		mg/kg	0.0020	0.00034
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00034
1,2-Dichloroethene (total)	ND		mg/kg	0.0010	0.00024
Dibromomethane	ND		mg/kg	0.010	0.00024
1,4-Dichlorobutane	ND		mg/kg	0.010	0.00016
1,2,3-Trichloropropane	ND		mg/kg	0.010	0.00018
Styrene	ND		mg/kg	0.0020	0.00040
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00050
Acetone	0.0046	J	mg/kg	0.036	0.0023
Carbon disulfide	ND		mg/kg	0.010	0.0011
2-Butanone	ND		mg/kg	0.010	0.00069
Vinyl acetate	ND		mg/kg	0.010	0.00015
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.00024
2-Hexanone	ND		mg/kg	0.010	0.00067
Ethyl methacrylate	ND		mg/kg	0.010	0.00017
Acrolein	ND		mg/kg	0.025	0.0080
Acrylonitrile	ND		mg/kg	0.0040	0.00051
Bromochloromethane	ND		mg/kg	0.0050	0.00036
Tetrahydrofuran	ND		mg/kg	0.020	0.0010

Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/20/17 13:30
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG986909-5					
2,2-Dichloropropane	ND		mg/kg	0.0050	0.00045
1,3-Dichloropropane	ND		mg/kg	0.0050	0.00018
1,1,1,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00032
Bromobenzene	ND		mg/kg	0.0050	0.00022
n-Butylbenzene	ND		mg/kg	0.0010	0.00023
sec-Butylbenzene	ND		mg/kg	0.0010	0.00022
tert-Butylbenzene	ND		mg/kg	0.0050	0.00025
o-Chlorotoluene	ND		mg/kg	0.0050	0.00022
p-Chlorotoluene	ND		mg/kg	0.0050	0.00018
Hexachlorobutadiene	ND		mg/kg	0.0050	0.00035
Isopropylbenzene	ND		mg/kg	0.0010	0.00019
p-Isopropyltoluene	ND		mg/kg	0.0010	0.00020
Naphthalene	0.00037	J	mg/kg	0.0050	0.00014
n-Propylbenzene	ND		mg/kg	0.0010	0.00022
1,2,3-Trichlorobenzene	ND		mg/kg	0.0050	0.00025
1,2,4-Trichlorobenzene	ND		mg/kg	0.0050	0.00022
1,3,5-Trimethylbenzene	ND		mg/kg	0.0050	0.00016
1,2,4-Trimethylbenzene	ND		mg/kg	0.0050	0.00019
trans-1,4-Dichloro-2-butene	ND		mg/kg	0.0050	0.00039
Ethyl ether	ND		mg/kg	0.0050	0.00026
Methyl Acetate	ND		mg/kg	0.0040	0.00046
Ethyl Acetate	ND		mg/kg	0.020	0.0020
Isopropyl Ether	ND		mg/kg	0.0040	0.00028
Cyclohexane	ND		mg/kg	0.020	0.00043
tert-Butyl Alcohol	ND		mg/kg	0.10	0.0029
Ethyl-Tert-Butyl-Ether	ND		mg/kg	0.0040	0.00018
Tertiary-Amyl Methyl Ether	ND		mg/kg	0.0040	0.00023
Methyl cyclohexane	ND		mg/kg	0.0040	0.00024
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.020	0.00051

Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/20/17 13:30
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG986909-5					
1,2,4,5-Tetramethylbenzene	ND		mg/kg	0.0040	0.00016
1,4-Diethylbenzene	ND		mg/kg	0.0040	0.0040
4-Ethyltoluene	ND		mg/kg	0.0040	0.00023

Tentatively Identified Compounds

Total TIC Compounds	0.008	J	mg/kg
Pentane, 2-methyl-	0.003	NJ	mg/kg
Unknown	0.003	J	mg/kg
Methane, iodo-	0.002	NJ	mg/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	89		70-130

Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 03/23/17 07:35

Analyst: MM

TCLP/SPLP Extraction Date: 03/22/17 14:13

Extraction Date: 03/22/17 14:13

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 06 Batch: WG987809-5					
Chloroform	ND		ug/l	7.5	1.6
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
dibromofluoromethane	104		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA C

Project Number: 15026

Lab Number: L1708264

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG986909-3 WG986909-4								
1,2-Dibromo-3-chloropropane	97		105		40-160	8		30
1,4-Dioxane	102		117		40-160	14		30
1,2-Dibromoethane	108		112		70-130	4		30
Methylene chloride	98		100		70-130	2		30
1,1-Dichloroethane	111		110		70-130	1		30
Chloroform	109		109		70-130	0		30
Carbon tetrachloride	122		122		70-130	0		30
1,2-Dichloropropane	108		109		70-130	1		30
Dibromochloromethane	113		115		70-130	2		30
1,1,2-Trichloroethane	108		110		70-130	2		30
2-Chloroethylvinyl ether	123		135		40-160	9		30
Tetrachloroethene	119		117		70-130	2		30
Chlorobenzene	111		112		70-130	1		30
Trichlorofluoromethane	126		122		40-160	3		30
1,2-Dichloroethane	106		109		70-130	3		30
1,1,1-Trichloroethane	117		117		70-130	0		30
Bromodichloromethane	111		111		70-130	0		30
trans-1,3-Dichloropropene	114		116		70-130	2		30
cis-1,3-Dichloropropene	111		112		40-160	1		30
1,1-Dichloropropene	116		117		70-130	1		30
Bromoform	102		105		40-160	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA C

Project Number: 15026

Lab Number: L1708264

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG986909-3 WG986909-4								
1,1,2,2-Tetrachloroethane	106		112		40-160	6		30
Benzene	110		110		70-130	0		30
Toluene	111		110		70-130	1		30
Ethylbenzene	113		112		70-130	1		30
Chloromethane	102		104		40-160	2		30
Bromomethane	125		119		40-160	5		30
Vinyl chloride	116		115		70-130	1		30
Chloroethane	119		115		40-160	3		30
1,1-Dichloroethene	117		118		70-130	1		30
trans-1,2-Dichloroethene	113		112		70-130	1		30
Trichloroethene	112		113		70-130	1		30
1,2-Dichlorobenzene	108		108		70-130	0		30
1,3-Dichlorobenzene	112		111		70-130	1		30
1,4-Dichlorobenzene	111		110		70-130	1		30
Methyl tert butyl ether	104		106		70-130	2		30
p/m-Xylene	114		114		70-130	0		30
o-Xylene	112		112		70-130	0		30
cis-1,2-Dichloroethene	111		112		70-130	1		30
Dibromomethane	107		108		70-130	1		30
1,4-Dichlorobutane	105		108		70-130	3		30
1,2,3-Trichloropropane	106		111		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA C

Project Number: 15026

Lab Number: L1708264

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG986909-3 WG986909-4								
Styrene	112		112		40-160	0		30
Dichlorodifluoromethane	124		124		40-160	0		30
Acetone	101		108		40-160	7		30
Carbon disulfide	113		117		40-160	3		30
2-Butanone	91		100		40-160	9		30
Vinyl acetate	106		111		70-130	5		30
4-Methyl-2-pentanone	104		111		40-160	7		30
2-Hexanone	103		110		40-160	7		30
Ethyl methacrylate	108		112		70-130	4		30
Acrolein	91		94		40-160	3		30
Acrylonitrile	100		106		70-130	6		30
Bromochloromethane	112		113		70-130	1		30
Tetrahydrofuran	101		105		70-130	4		30
2,2-Dichloropropane	120		119		40-160	1		30
1,3-Dichloropropane	109		110		70-130	1		30
1,1,1,2-Tetrachloroethane	116		116		70-130	0		30
Bromobenzene	110		110		70-130	0		30
n-Butylbenzene	118		118		70-130	0		30
sec-Butylbenzene	117		116		70-130	1		30
tert-Butylbenzene	115		114		70-130	1		30
o-Chlorotoluene	111		109		70-130	2		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA C

Project Number: 15026

Lab Number: L1708264

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG986909-3 WG986909-4								
p-Chlorotoluene	112		112		70-130	0		30
Hexachlorobutadiene	122		120		70-130	2		30
Isopropylbenzene	116		114		70-130	2		30
p-Isopropyltoluene	117		116		70-130	1		30
Naphthalene	105		110		40-160	5		30
n-Propylbenzene	115		114		70-130	1		30
1,2,3-Trichlorobenzene	112		114		70-130	2		30
1,2,4-Trichlorobenzene	116		116		70-130	0		30
1,3,5-Trimethylbenzene	114		113		70-130	1		30
1,2,4-Trimethylbenzene	113		112		70-130	1		30
trans-1,4-Dichloro-2-butene	110		117		70-130	6		30
Ethyl ether	104		108		70-130	4		30
Methyl Acetate	94		102		70-130	8		30
Ethyl Acetate	96		104		70-130	8		30
Isopropyl Ether	100		102		70-130	2		30
Cyclohexane	113		114		70-130	1		30
tert-Butyl Alcohol	90		93		40-160	3		30
Ethyl-Tert-Butyl-Ether	101		102		70-130	1		30
Tertiary-Amyl Methyl Ether	99		102		70-130	3		30
Methyl cyclohexane	114		116		70-130	2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	114		118		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA C

Project Number: 15026

Lab Number: L1708264

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG986909-3 WG986909-4								
1,2,4,5-Tetramethylbenzene	110		109		70-130	1		30
1,4-Diethylbenzene	112		112		70-130	0		30
4-Ethyltoluene	110		109		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		98		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	98		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA C

Project Number: 15026

Lab Number: L1708264

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 06 Batch: WG987809-3 WG987809-4								
Chloroform	110		120		70-130	9		20
Carbon tetrachloride	110		100		63-132	10		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	110		100		75-130	10		25
1,2-Dichloroethane	120		120		70-130	0		20
Benzene	110		110		70-130	0		25
Vinyl chloride	120		120		55-140	0		20
1,1-Dichloroethene	100		100		61-145	0		25
Trichloroethene	110		110		70-130	0		25
1,4-Dichlorobenzene	100		100		70-130	0		20
2-Butanone	110		120		63-138	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	95		93		70-130
dibromofluoromethane	102		98		70-130

SEMIVOLATILES

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-06
Client ID: C-COMP
Sample Location: BROOKLYN NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/20/17 05:50
Analyst: RC
Percent Solids: 88%

Date Collected: 03/17/17 12:30
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	2.8		mg/kg	0.15	0.015	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
Hexachlorobenzene	ND		mg/kg	0.053	0.018	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.066	0.022	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.14	0.047	1
2,4-Dinitrotoluene	ND		mg/kg	0.092	0.030	1
2,6-Dinitrotoluene	ND		mg/kg	0.073	0.024	1
Fluoranthene	1.6		mg/kg	0.11	0.021	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.015	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.021	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.017	1
Hexachlorobutadiene	ND		mg/kg	0.068	0.023	1
Hexachlorocyclopentadiene	ND		mg/kg	0.53	0.12	1
Hexachloroethane	ND		mg/kg	0.089	0.030	1
Isophorone	ND		mg/kg	0.062	0.020	1
Naphthalene	6.8		mg/kg	0.18	0.022	1
Nitrobenzene	ND		mg/kg	0.082	0.027	1
NDPA/DPA	ND		mg/kg	0.045	0.015	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.046	0.015	1
Bis(2-ethylhexyl)phthalate	66.	E	mg/kg	0.18	0.019	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.024	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.016	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.057	1
Diethyl phthalate	ND		mg/kg	0.18	0.017	1
Dimethyl phthalate	ND		mg/kg	0.18	0.018	1
Benzo(a)anthracene	0.25		mg/kg	0.062	0.021	1
Benzo(a)pyrene	0.11	J	mg/kg	0.13	0.045	1
Benzo(b)fluoranthene	0.17		mg/kg	0.046	0.015	1
Benzo(k)fluoranthene	0.051		mg/kg	0.039	0.013	1
Chrysene	0.28		mg/kg	0.11	0.019	1

Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-06

Date Collected: 03/17/17 12:30

Client ID: C-COMP

Date Received: 03/17/17

Sample Location: BROOKLYN NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthylene	ND		mg/kg	0.15	0.021	1
Anthracene	1.6		mg/kg	0.11	0.016	1
Benzo(ghi)perylene	0.062	J	mg/kg	0.15	0.022	1
Fluorene	ND		mg/kg	0.18	0.018	1
Phenanthrene	9.0	E	mg/kg	0.11	0.013	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.064	0.021	1
Indeno(1,2,3-cd)pyrene	0.074	J	mg/kg	0.077	0.026	1
Pyrene	2.2		mg/kg	0.11	0.016	1
4-Chloroaniline	ND		mg/kg	0.18	0.021	1
2-Nitroaniline	ND		mg/kg	0.18	0.034	1
3-Nitroaniline	ND		mg/kg	0.18	0.035	1
4-Nitroaniline	ND		mg/kg	0.18	0.076	1
Dibenzofuran	ND		mg/kg	0.18	0.016	1
2-Methylnaphthalene	22.	E	mg/kg	0.22	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.10	0.035	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.027	1
2-Chlorophenol	ND		mg/kg	0.061	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.088	0.030	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.058	1
2-Nitrophenol	ND		mg/kg	0.40	0.030	1
2,4-Dinitrophenol	ND		mg/kg	0.26	0.086	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.26	0.088	1
Pentachlorophenol	ND		mg/kg	0.12	0.040	1
Phenol	ND		mg/kg	0.18	0.022	1
2-Methylphenol	ND		mg/kg	0.18	0.028	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.26	0.026	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.035	1
Carbazole	ND		mg/kg	0.18	0.012	1
4-Nitrophenol	ND		mg/kg	0.26	0.051	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.020	1
Benzaldehyde	ND		mg/kg	0.24	0.029	1
Caprolactam	ND		mg/kg	0.18	0.039	1
Acetophenone	ND		mg/kg	0.18	0.019	1
Biphenyl	ND		mg/kg	0.42	0.043	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.019	1
Atrazine	ND		mg/kg	0.15	0.064	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.037	1

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-06
Client ID: C-COMP
Sample Location: BROOKLYN NY

Date Collected: 03/17/17 12:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Tentatively Identified Compounds

Total TIC Compounds	69.9	J	mg/kg	1
Naphthalene, 1-methyl-	2.56	NJ	mg/kg	1
Unknown Alkane	3.05	J	mg/kg	1
Unknown Benzene	6.22	J	mg/kg	1
Unknown Alkane	3.03	J	mg/kg	1
Unknown Benzene	4.28	J	mg/kg	1
Unknown	3.08	J	mg/kg	1
Unknown Cyclohexane	3.21	J	mg/kg	1
Unknown	7.74	J	mg/kg	1
Unknown	10.7	J	mg/kg	1
Unknown Alkane	4.59	J	mg/kg	1
Unknown	4.49	J	mg/kg	1
Unknown Naphthalene	2.69	J	mg/kg	1
Unknown	3.23	J	mg/kg	1
Unknown Naphthalene	3.62	J	mg/kg	1
Unknown Alkane	7.37	J	mg/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		30-130
Phenol-d6	83		30-130
Nitrobenzene-d5	149	Q	30-130
2-Fluorobiphenyl	69		30-130
2,4,6-Tribromophenol	86		30-130
4-Terphenyl-d14	85		30-130

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-06 D
 Client ID: C-COMP
 Sample Location: BROOKLYN NY
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/21/17 17:19
 Analyst: CB
 Percent Solids: 88%

Date Collected: 03/17/17 12:30
 Date Received: 03/17/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Bis(2-ethylhexyl)phthalate	93.		mg/kg	3.7	0.38	20
Phenanthrene	7.6		mg/kg	2.2	0.26	20
2-Methylnaphthalene	23.		mg/kg	4.4	0.39	20

Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/19/17 23:29
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG986432-1					
Acenaphthene	ND		mg/kg	0.13	0.014
2-Chloronaphthalene	ND		mg/kg	0.16	0.015
Hexachlorobenzene	ND		mg/kg	0.047	0.015
Bis(2-chloroethyl)ether	ND		mg/kg	0.058	0.020
3,3'-Dichlorobenzidine	ND		mg/kg	0.12	0.042
2,4-Dinitrotoluene	ND		mg/kg	0.081	0.027
2,6-Dinitrotoluene	ND		mg/kg	0.064	0.021
Fluoranthene	ND		mg/kg	0.097	0.019
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.014
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.19	0.019
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.015
Hexachlorobutadiene	ND		mg/kg	0.060	0.020
Hexachlorocyclopentadiene	ND		mg/kg	0.46	0.10
Hexachloroethane	ND		mg/kg	0.079	0.026
Isophorone	ND		mg/kg	0.054	0.018
Naphthalene	ND		mg/kg	0.16	0.020
Nitrobenzene	ND		mg/kg	0.072	0.024
NDPA/DPA	ND		mg/kg	0.040	0.013
n-Nitrosodi-n-propylamine	ND		mg/kg	0.041	0.014
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.16	0.017
Butyl benzyl phthalate	ND		mg/kg	0.16	0.022
Di-n-butylphthalate	ND		mg/kg	0.16	0.014
Di-n-octylphthalate	ND		mg/kg	0.16	0.051
Diethyl phthalate	ND		mg/kg	0.16	0.015
Dimethyl phthalate	ND		mg/kg	0.16	0.016
Benzo(a)anthracene	ND		mg/kg	0.054	0.018
Benzo(a)pyrene	ND		mg/kg	0.12	0.040
Benzo(b)fluoranthene	ND		mg/kg	0.041	0.014
Benzo(k)fluoranthene	ND		mg/kg	0.034	0.011

Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/19/17 23:29
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG986432-1					
Chrysene	ND		mg/kg	0.097	0.017
Acenaphthylene	ND		mg/kg	0.13	0.018
Anthracene	ND		mg/kg	0.097	0.014
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019
Fluorene	ND		mg/kg	0.16	0.016
Phenanthrene	ND		mg/kg	0.097	0.012
Dibenzo(a,h)anthracene	ND		mg/kg	0.056	0.019
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.068	0.023
Pyrene	ND		mg/kg	0.097	0.014
4-Chloroaniline	ND		mg/kg	0.16	0.019
2-Nitroaniline	ND		mg/kg	0.16	0.030
3-Nitroaniline	ND		mg/kg	0.16	0.031
4-Nitroaniline	ND		mg/kg	0.16	0.067
Dibenzofuran	ND		mg/kg	0.16	0.014
2-Methylnaphthalene	ND		mg/kg	0.19	0.017
2,4,6-Trichlorophenol	ND		mg/kg	0.092	0.031
p-Chloro-m-cresol	ND		mg/kg	0.16	0.024
2-Chlorophenol	ND		mg/kg	0.054	0.018
2,4-Dichlorophenol	ND		mg/kg	0.078	0.026
2,4-Dimethylphenol	ND		mg/kg	0.15	0.052
2-Nitrophenol	ND		mg/kg	0.35	0.027
2,4-Dinitrophenol	ND		mg/kg	0.23	0.076
4,6-Dinitro-o-cresol	ND		mg/kg	0.23	0.078
Pentachlorophenol	ND		mg/kg	0.11	0.036
Phenol	ND		mg/kg	0.16	0.019
2-Methylphenol	ND		mg/kg	0.16	0.025
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.23	0.023
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.031
Carbazole	ND		mg/kg	0.16	0.010

Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/19/17 23:29
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG986432-1					
4-Nitrophenol	ND		mg/kg	0.23	0.045
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.018
Benzaldehyde	ND		mg/kg	0.21	0.025
Caprolactam	ND		mg/kg	0.16	0.035
Acetophenone	ND		mg/kg	0.16	0.017
Biphenyl	ND		mg/kg	0.37	0.038
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017
Atrazine	ND		mg/kg	0.13	0.057
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033

Tentatively Identified Compounds

No Tentatively Identified Compounds ND mg/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		30-130
Phenol-d6	82		30-130
Nitrobenzene-d5	82		30-130
2-Fluorobiphenyl	81		30-130
2,4,6-Tribromophenol	93		30-130
4-Terphenyl-d14	93		30-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA C

Project Number: 15026

Lab Number: L1708264

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG986432-2 WG986432-3								
Acenaphthene	82		75		70-130	9		30
2-Chloronaphthalene	83		76		70-130	9		30
Hexachlorobenzene	81		74		70-130	9		30
Bis(2-chloroethyl)ether	80		72		70-130	11		30
3,3'-Dichlorobenzidine	60	Q	55	Q	70-130	9		30
2,4-Dinitrotoluene	85		80		70-130	6		30
2,6-Dinitrotoluene	97		89		70-130	9		30
Fluoranthene	87		80		70-130	8		30
4-Chlorophenyl phenyl ether	81		74		70-130	9		30
Bis(2-chloroisopropyl)ether	92		83		70-130	10		30
Bis(2-chloroethoxy)methane	88		79		70-130	11		30
Hexachlorobutadiene	74		67	Q	70-130	10		30
Hexachlorocyclopentadiene	75		69		20-160	8		30
Hexachloroethane	76		70		20-160	8		30
Isophorone	90		80		70-130	12		30
Naphthalene	78		72		70-130	8		30
Nitrobenzene	87		80		70-130	8		30
NDPA/DPA	85		79		70-130	7		30
n-Nitrosodi-n-propylamine	89		82		70-130	8		30
Bis(2-ethylhexyl)phthalate	90		81		70-130	11		30
Butyl benzyl phthalate	88		82		70-130	7		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA C

Project Number: 15026

Lab Number: L1708264

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG986432-2 WG986432-3								
Di-n-butylphthalate	94		86		70-130	9		30
Di-n-octylphthalate	92		85		70-130	8		30
Diethyl phthalate	86		78		70-130	10		30
Dimethyl phthalate	87		79		70-130	10		30
Benzo(a)anthracene	85		78		70-130	9		30
Benzo(a)pyrene	90		86		70-130	5		30
Benzo(b)fluoranthene	88		84		70-130	5		30
Benzo(k)fluoranthene	85		81		70-130	5		30
Chrysene	83		77		70-130	8		30
Acenaphthylene	87		80		70-130	8		30
Anthracene	87		80		70-130	8		30
Benzo(ghi)perylene	86		79		70-130	8		30
Fluorene	84		78		70-130	7		30
Phenanthrene	83		76		70-130	9		30
Dibenzo(a,h)anthracene	85		78		70-130	9		30
Indeno(1,2,3-cd)pyrene	89		78		70-130	13		30
Pyrene	85		79		70-130	7		30
4-Chloroaniline	48		43		20-160	11		30
2-Nitroaniline	97		87		70-130	11		30
3-Nitroaniline	66	Q	62	Q	70-130	6		30
4-Nitroaniline	82		76		70-130	8		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA C

Project Number: 15026

Lab Number: L1708264

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG986432-2 WG986432-3								
Dibenzofuran	82		76		70-130	8		30
2-Methylnaphthalene	83		76		70-130	9		30
2,4,6-Trichlorophenol	97		86		70-130	12		30
p-Chloro-m-cresol	93		83		70-130	11		30
2-Chlorophenol	87		80		70-130	8		30
2,4-Dichlorophenol	91		83		70-130	9		30
2,4-Dimethylphenol	94		85		70-130	10		30
2-Nitrophenol	98		88		70-130	11		30
2,4-Dinitrophenol	64		57		20-160	12		30
4,6-Dinitro-o-cresol	88		81		70-130	8		30
Pentachlorophenol	74		67		20-160	10		30
Phenol	84		76		20-160	10		30
2-Methylphenol	87		79		70-130	10		30
3-Methylphenol/4-Methylphenol	90		81		20-160	11		30
2,4,5-Trichlorophenol	95		87		70-130	9		30
Carbazole	87		80		70-130	8		30
4-Nitrophenol	93		86		20-160	8		30
4-Bromophenyl phenyl ether	83		73		70-130	13		30
Benzaldehyde	75		68		20-160	10		30
Caprolactam	107		96		20-160	11		30
Acetophenone	86		79		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA C

Project Number: 15026

Lab Number: L1708264

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG986432-2 WG986432-3								
Biphenyl	84		78		70-130	7		30
1,2,4,5-Tetrachlorobenzene	80		73		70-130	9		30
Atrazine	95		84		70-130	12		30
2,3,4,6-Tetrachlorophenol	87		81		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	87		80		30-130
Phenol-d6	90		81		30-130
Nitrobenzene-d5	89		82		30-130
2-Fluorobiphenyl	83		76		30-130
2,4,6-Tribromophenol	91		84		30-130
4-Terphenyl-d14	86		78		30-130

PETROLEUM HYDROCARBONS

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-01
 Client ID: C-1
 Sample Location: BROOKLYN NY
 Matrix: Soil
 Analytical Method: 103,NJDEP EPH
 Analytical Date: 03/20/17 12:12
 Analyst: DG
 Percent Solids: 87%

Date Collected: 03/17/17 12:30
 Date Received: 03/17/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 03/19/17 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab

Total EPH	971		mg/kg	26.1	26.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	89		40-140
o-Terphenyl	98		40-140

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-02
Client ID: C-2
Sample Location: BROOKLYN NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/20/17 12:40
Analyst: DG
Percent Solids: 88%

Date Collected: 03/17/17 12:30
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						

Total EPH	1130		mg/kg	26.1	26.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	94		40-140
o-Terphenyl	108		40-140

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-03
Client ID: C-3
Sample Location: BROOKLYN NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/23/17 16:29
Analyst: SR
Percent Solids: 87%

Date Collected: 03/17/17 12:30
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
Total EPH	526		mg/kg	26.8	26.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	91		40-140
o-Terphenyl	107		40-140

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-04
 Client ID: C-4
 Sample Location: BROOKLYN NY
 Matrix: Soil
 Analytical Method: 103,NJDEP EPH
 Analytical Date: 03/23/17 18:01
 Analyst: SR
 Percent Solids: 86%

Date Collected: 03/17/17 12:30
 Date Received: 03/17/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 03/19/17 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab

Total EPH	670		mg/kg	27.0	27.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	78		40-140
o-Terphenyl	78		40-140

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-05
 Client ID: C-5
 Sample Location: BROOKLYN NY
 Matrix: Soil
 Analytical Method: 103,NJDEP EPH
 Analytical Date: 03/23/17 16:59
 Analyst: SR
 Percent Solids: 81%

Date Collected: 03/17/17 12:30
 Date Received: 03/17/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 03/19/17 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab

Total EPH	211		mg/kg	28.8	28.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	95		40-140
o-Terphenyl	101		40-140

Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 103,NJDEP EPH

Extraction Method: EPA 3546

Analytical Date: 03/20/17 13:08

Extraction Date: 03/19/17 13:49

Analyst: DG

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 01-05 Batch: WG986528-1					
Total EPH	ND		mg/kg	23.1	23.1

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	90		40-140
o-Terphenyl	91		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA C

Project Number: 15026

Lab Number: L1708264

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01-05 Batch: WG986528-2 WG986528-3								
Total EPH	103		103		40-140	0		25
Nonane (C9)	78		78		40-140	0		25
Decane (C10)	86		86		40-140	0		25
Dodecane (C12)	88		88		40-140	0		25
Tetradecane (C14)	93		91		40-140	2		25
Hexadecane (C16)	96		95		40-140	1		25
Octadecane (C18)	96		95		40-140	1		25
Eicosane (C20)	97		98		40-140	1		25
Heneicosane (C21)	90		89		40-140	1		25
Docosane (C22)	97		96		40-140	1		25
Tetracosane (C24)	96		94		40-140	2		25
Hexacosane (C26)	94		93		40-140	1		25
Octacosane (C28)	93		92		40-140	1		25
Triacontane (C30)	94		94		40-140	0		25
Dotriacontane (C32)	97		96		40-140	1		25
Tetratriacontane (C34)	96		93		40-140	3		25
Hexatriacontane (C36)	96		98		40-140	2		25
Octatriacontane (C38)	96		96		40-140	0		25
Tetracontane (C40)	91		93		40-140	2		25

Lab Control Sample Analysis**Batch Quality Control****Project Name:** KINGS PLAZA - AREA C**Lab Number:** L1708264**Project Number:** 15026**Report Date:** 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01-05 Batch: WG986528-2 WG986528-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	93		87		40-140
o-Terphenyl	92		90		40-140

PCBS

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-06
Client ID: C-COMP
Sample Location: BROOKLYN NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/21/17 03:14
Analyst: HT
Percent Solids: 88%

Date Collected: 03/17/17 12:30
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 22:06
Cleanup Method: EPA 3665A
Cleanup Date: 03/20/17
Cleanup Method: EPA 3660B
Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0368	0.00291	1	A
Aroclor 1221	ND		mg/kg	0.0368	0.00340	1	A
Aroclor 1232	ND		mg/kg	0.0368	0.00432	1	A
Aroclor 1242	ND		mg/kg	0.0368	0.00451	1	A
Aroclor 1248	ND		mg/kg	0.0368	0.00311	1	A
Aroclor 1254	ND		mg/kg	0.0368	0.00303	1	A
Aroclor 1260	ND		mg/kg	0.0368	0.00280	1	A
Aroclor 1262	ND		mg/kg	0.0368	0.00183	1	A
Aroclor 1268	ND		mg/kg	0.0368	0.00534	1	A
PCBs, Total	ND		mg/kg	0.0368	0.00183	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 03/20/17 23:13
 Analyst: JA

Extraction Method: EPA 3546
 Extraction Date: 03/19/17 21:30
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/20/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 06 Batch: WG986560-1						
Aroclor 1016	ND		mg/kg	0.0331	0.00261	A
Aroclor 1221	ND		mg/kg	0.0331	0.00305	A
Aroclor 1232	ND		mg/kg	0.0331	0.00388	A
Aroclor 1242	ND		mg/kg	0.0331	0.00405	A
Aroclor 1248	ND		mg/kg	0.0331	0.00279	A
Aroclor 1254	ND		mg/kg	0.0331	0.00272	A
Aroclor 1260	ND		mg/kg	0.0331	0.00252	A
Aroclor 1262	ND		mg/kg	0.0331	0.00164	A
Aroclor 1268	ND		mg/kg	0.0331	0.00479	A
PCBs, Total	ND		mg/kg	0.0331	0.00164	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	73		30-150	B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** KINGS PLAZA - AREA C**Lab Number:** L1708264**Project Number:** 15026**Report Date:** 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 06 Batch: WG986560-2 WG986560-3									
Aroclor 1016	103		102		40-140	1		30	A
Aroclor 1260	109		114		40-140	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		99		30-150	A
Decachlorobiphenyl	107		111		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		94		30-150	B
Decachlorobiphenyl	76		76		30-150	B

PESTICIDES

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-06
Client ID: C-COMP
Sample Location: BROOKLYN NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/21/17 04:41
Analyst: DM
Percent Solids: 88%

Date Collected: 03/17/17 12:30
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 20:22
Cleanup Method: EPA 3620B
Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		mg/kg	0.00174	0.00034	1	A
Lindane	ND		mg/kg	0.00072	0.00032	1	A
Alpha-BHC	ND		mg/kg	0.00072	0.00020	1	A
Beta-BHC	ND		mg/kg	0.00174	0.00066	1	A
Heptachlor	ND		mg/kg	0.00087	0.00039	1	A
Aldrin	0.00088	J	mg/kg	0.00174	0.00061	1	B
Heptachlor epoxide	ND		mg/kg	0.00327	0.00098	1	A
Endrin	0.00148		mg/kg	0.00072	0.00029	1	A
Endrin aldehyde	ND		mg/kg	0.00218	0.00076	1	A
Endrin ketone	ND		mg/kg	0.00174	0.00044	1	A
Dieldrin	ND		mg/kg	0.00109	0.00054	1	A
4,4'-DDE	ND		mg/kg	0.00174	0.00040	1	A
4,4'-DDD	0.00265	P	mg/kg	0.00174	0.00062	1	A
4,4'-DDT	ND		mg/kg	0.00327	0.00140	1	A
Endosulfan I	ND		mg/kg	0.00174	0.00041	1	A
Endosulfan II	ND		mg/kg	0.00174	0.00058	1	A
Endosulfan sulfate	ND		mg/kg	0.00072	0.00034	1	A
Methoxychlor	ND		mg/kg	0.00327	0.00102	1	A
Toxaphene	ND		mg/kg	0.0327	0.00915	1	A
Chlordane	ND		mg/kg	0.0142	0.00578	1	A
cis-Chlordane	ND		mg/kg	0.00218	0.00060	1	A
trans-Chlordane	ND		mg/kg	0.00218	0.00057	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	122		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	102		30-150	A

Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/21/17 02:32
 Analyst: RL

Extraction Method: EPA 3546
 Extraction Date: 03/19/17 20:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Pesticides by GC - Westborough Lab for sample(s): 06 Batch: WG986556-1						
Delta-BHC	ND		mg/kg	0.00152	0.00029	A
Lindane	ND		mg/kg	0.00063	0.00028	A
Alpha-BHC	ND		mg/kg	0.00063	0.00017	A
Beta-BHC	ND		mg/kg	0.00152	0.00057	A
Heptachlor	ND		mg/kg	0.00075	0.00034	A
Aldrin	ND		mg/kg	0.00152	0.00053	A
Heptachlor epoxide	ND		mg/kg	0.00284	0.00085	A
Endrin	ND		mg/kg	0.00063	0.00025	A
Endrin aldehyde	ND		mg/kg	0.00190	0.00066	A
Endrin ketone	ND		mg/kg	0.00152	0.00039	A
Dieldrin	ND		mg/kg	0.00094	0.00047	A
4,4'-DDE	ND		mg/kg	0.00152	0.00035	A
4,4'-DDD	ND		mg/kg	0.00152	0.00054	A
4,4'-DDT	ND		mg/kg	0.00284	0.00122	A
Endosulfan I	ND		mg/kg	0.00152	0.00035	A
Endosulfan II	ND		mg/kg	0.00152	0.00050	A
Endosulfan sulfate	ND		mg/kg	0.00063	0.00030	A
Methoxychlor	ND		mg/kg	0.00284	0.00088	A
Toxaphene	ND		mg/kg	0.0284	0.00796	A
Chlordane	ND		mg/kg	0.0123	0.00502	A
cis-Chlordane	ND		mg/kg	0.00190	0.00052	A
trans-Chlordane	ND		mg/kg	0.00190	0.00050	A

Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/21/17 02:32
 Analyst: RL

Extraction Method: EPA 3546
 Extraction Date: 03/19/17 20:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL
Pesticides by GC - Westborough Lab for sample(s): 06 Batch: WG986556-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	102		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	118		30-150	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA C

Project Number: 15026

Lab Number: L1708264

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Pesticides by GC - Westborough Lab Associated sample(s): 06 Batch: WG986556-2 WG986556-3									
Delta-BHC	89		102		40-140	14		30	A
Lindane	89		101		40-140	13		30	A
Alpha-BHC	91		102		40-140	11		30	A
Beta-BHC	86		103		40-140	18		30	A
Heptachlor	88		97		40-140	10		30	A
Aldrin	91		101		40-140	10		30	A
Heptachlor epoxide	89		101		40-140	13		30	A
Endrin	108		123		40-140	13		30	A
Endrin aldehyde	79		88		40-140	11		30	A
Endrin ketone	91		103		40-140	12		30	A
Dieldrin	97		111		40-140	13		30	A
4,4'-DDE	92		104		40-140	12		30	A
4,4'-DDD	91		104		40-140	13		30	A
4,4'-DDT	102		115		40-140	12		30	A
Endosulfan I	88		97		40-140	10		30	A
Endosulfan II	86		97		40-140	12		30	A
Endosulfan sulfate	91		100		40-140	9		30	A
Methoxychlor	114		128		40-140	12		30	A
cis-Chlordane	82		92		40-140	11		30	A
trans-Chlordane	81		91		40-140	12		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA C

Project Number: 15026

Lab Number: L1708264

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 06 Batch: WG986556-2 WG986556-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		83		30-150	B
Decachlorobiphenyl	98		110		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		100		30-150	A
Decachlorobiphenyl	111		126		30-150	A

METALS

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-06
Client ID: C-COMP
Sample Location: BROOKLYN NY
Matrix: Soil
Percent Solids: 88%

Date Collected: 03/17/17 12:30
Date Received: 03/17/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 03/20/17 14:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	0.02	1	03/21/17 17:32	03/22/17 16:08	EPA 3015	1,6010C	AB
Barium, TCLP	0.45	J	mg/l	0.50	0.02	1	03/21/17 17:32	03/22/17 16:08	EPA 3015	1,6010C	AB
Cadmium, TCLP	0.06	J	mg/l	0.10	0.01	1	03/21/17 17:32	03/22/17 16:08	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.20	0.02	1	03/21/17 17:32	03/22/17 16:08	EPA 3015	1,6010C	AB
Lead, TCLP	0.67		mg/l	0.50	0.03	1	03/21/17 17:32	03/22/17 16:08	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	03/21/17 12:08	03/21/17 22:18	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.50	0.04	1	03/21/17 17:32	03/22/17 16:08	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.10	0.03	1	03/21/17 17:32	03/22/17 16:08	EPA 3015	1,6010C	AB



Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-06

Date Collected: 03/17/17 12:30

Client ID: C-COMP

Date Received: 03/17/17

Sample Location: BROOKLYN NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2700		mg/kg	9.0	2.4	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Antimony, Total	1.4	J	mg/kg	4.5	0.34	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Arsenic, Total	2.2		mg/kg	0.90	0.19	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Barium, Total	36		mg/kg	0.90	0.16	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Beryllium, Total	0.14	J	mg/kg	0.45	0.03	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Cadmium, Total	3.5		mg/kg	0.90	0.09	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Calcium, Total	6400		mg/kg	9.0	3.2	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Chromium, Total	8.6		mg/kg	0.90	0.09	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Cobalt, Total	2.6		mg/kg	1.8	0.15	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Copper, Total	20		mg/kg	0.90	0.23	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Iron, Total	7800		mg/kg	4.5	0.82	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Lead, Total	42		mg/kg	4.5	0.24	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Magnesium, Total	1200		mg/kg	9.0	1.4	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Manganese, Total	83		mg/kg	0.90	0.14	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Mercury, Total	0.04	J	mg/kg	0.07	0.02	1	03/21/17 06:25	03/21/17 12:52	EPA 7471B	1,7471B	BV
Nickel, Total	12		mg/kg	2.3	0.22	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Potassium, Total	420		mg/kg	230	13.	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.8	0.23	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.90	0.26	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Sodium, Total	510		mg/kg	180	2.8	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.8	0.28	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Vanadium, Total	11		mg/kg	0.90	0.18	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB
Zinc, Total	62		mg/kg	4.5	0.26	2	03/20/17 20:08	03/22/17 00:02	EPA 3050B	1,6010C	AB



Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06 Batch: WG986782-1										
Aluminum, Total	ND		mg/kg	4.0	1.1	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Antimony, Total	ND		mg/kg	2.0	0.15	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Arsenic, Total	ND		mg/kg	0.40	0.08	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Barium, Total	ND		mg/kg	0.40	0.07	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Beryllium, Total	ND		mg/kg	0.20	0.01	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.40	0.04	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Calcium, Total	ND		mg/kg	4.0	1.4	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Chromium, Total	ND		mg/kg	0.40	0.04	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Cobalt, Total	ND		mg/kg	0.80	0.07	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Copper, Total	ND		mg/kg	0.40	0.10	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Iron, Total	0.50	J	mg/kg	2.0	0.36	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Lead, Total	ND		mg/kg	2.0	0.11	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Magnesium, Total	ND		mg/kg	4.0	0.62	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Manganese, Total	ND		mg/kg	0.40	0.06	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Nickel, Total	ND		mg/kg	1.0	0.10	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Potassium, Total	ND		mg/kg	100	5.8	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Selenium, Total	ND		mg/kg	0.80	0.10	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Silver, Total	ND		mg/kg	0.40	0.11	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Sodium, Total	ND		mg/kg	80	1.3	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Thallium, Total	ND		mg/kg	0.80	0.13	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Vanadium, Total	ND		mg/kg	0.40	0.08	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Zinc, Total	ND		mg/kg	2.0	0.12	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06 Batch: WG986829-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	03/21/17 06:25	03/21/17 12:25	1,7471B	BV



Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 06 Batch: WG986960-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	03/21/17 12:08	03/21/17 21:59	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 03/20/17 14:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 06 Batch: WG987051-1										
Arsenic, TCLP	ND		mg/l	1.0	0.02	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Barium, TCLP	0.03	J	mg/l	0.50	0.02	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.10	0.01	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.20	0.02	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Lead, TCLP	ND		mg/l	0.50	0.03	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Selenium, TCLP	ND		mg/l	0.50	0.04	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Silver, TCLP	ND		mg/l	0.10	0.03	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 03/20/17 14:59

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA C

Project Number: 15026

Lab Number: L1708264

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG986782-2 SRM Lot Number: D091-540								
Aluminum, Total	77		-		52-148	-		
Antimony, Total	146		-		1-200	-		
Arsenic, Total	103		-		80-121	-		
Barium, Total	96		-		84-117	-		
Beryllium, Total	99		-		83-117	-		
Cadmium, Total	96		-		83-117	-		
Calcium, Total	95		-		81-118	-		
Chromium, Total	98		-		80-119	-		
Cobalt, Total	97		-		84-115	-		
Copper, Total	92		-		82-117	-		
Iron, Total	100		-		47-154	-		
Lead, Total	96		-		82-118	-		
Magnesium, Total	87		-		77-123	-		
Manganese, Total	91		-		82-118	-		
Nickel, Total	93		-		83-117	-		
Potassium, Total	92		-		72-128	-		
Selenium, Total	90		-		79-121	-		
Silver, Total	96		-		75-124	-		
Sodium, Total	98		-		73-126	-		
Thallium, Total	85		-		80-121	-		
Vanadium, Total	96		-		78-122	-		

Lab Control Sample Analysis**Batch Quality Control****Project Name:** KINGS PLAZA - AREA C**Project Number:** 15026**Lab Number:** L1708264**Report Date:** 03/24/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG986782-2 SRM Lot Number: D091-540					
Zinc, Total	98	-	82-118	-	
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG986829-2 SRM Lot Number: D091-540					
Mercury, Total	98	-	72-128	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 Batch: WG986960-2					
Mercury, TCLP	103	-	80-120	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 Batch: WG987051-2					
Arsenic, TCLP	100	-	75-125	-	20
Barium, TCLP	95	-	75-125	-	20
Cadmium, TCLP	98	-	75-125	-	20
Chromium, TCLP	90	-	75-125	-	20
Lead, TCLP	90	-	75-125	-	20
Selenium, TCLP	100	-	75-125	-	20
Silver, TCLP	94	-	75-125	-	20

INORGANICS & MISCELLANEOUS

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-06
Client ID: C-COMP
Sample Location: BROOKLYN NY
Matrix: Soil

Date Collected: 03/17/17 12:30
Date Received: 03/17/17
Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	03/21/17 02:00	1,1030	SB



Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-01
Client ID: C-1
Sample Location: BROOKLYN NY
Matrix: Soil

Date Collected: 03/17/17 12:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.7		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI



Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-02
Client ID: C-2
Sample Location: BROOKLYN NY
Matrix: Soil

Date Collected: 03/17/17 12:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI



Project Name: KINGS PLAZA - AREA C**Project Number:** 15026**Lab Number:** L1708264**Report Date:** 03/24/17**SAMPLE RESULTS****Lab ID:** L1708264-03**Client ID:** C-3**Sample Location:** BROOKLYN NY**Matrix:** Soil**Date Collected:** 03/17/17 12:30**Date Received:** 03/17/17**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.1		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI



Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-04
Client ID: C-4
Sample Location: BROOKLYN NY
Matrix: Soil

Date Collected: 03/17/17 12:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI



Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-05
Client ID: C-5
Sample Location: BROOKLYN NY
Matrix: Soil

Date Collected: 03/17/17 12:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.6		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI



Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708264-06
Client ID: C-COMP
Sample Location: BROOKLYN NY
Matrix: Soil

Date Collected: 03/17/17 12:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.4		%	0.100	NA	1	-	03/18/17 18:45	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.18	1	03/20/17 11:10	03/20/17 14:31	1,9010C/9012B	JO
pH (H)	8.6		SU	-	NA	1	-	03/18/17 10:20	1,9045D	MR
Cyanide, Reactive	ND		mg/kg	10	10.	1	03/20/17 22:00	03/20/17 23:12	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	10.	1	03/20/17 22:00	03/20/17 23:05	1,7.3	TL
Paint Filter Liquid	NEGATIVE		-	0	NA	1	-	03/20/17 18:05	1,9095B	AS



Project Name: KINGS PLAZA - AREA C

Lab Number: L1708264

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG986613-1										
Cyanide, Total	ND		mg/kg	0.90	0.15	1	03/20/17 11:10	03/20/17 14:09	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG986753-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	03/20/17 22:00	03/20/17 23:09	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG986756-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	03/20/17 22:00	03/20/17 23:01	1,7.3	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA C

Project Number: 15026

Lab Number: L1708264

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG986389-1								
pH	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG986613-2 WG986613-3								
Cyanide, Total	97		90		80-120	6		35
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG986753-2								
Cyanide, Reactive	61		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG986756-2								
Sulfide, Reactive	96		-		60-125	-		40

Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1708264
Report Date: 03/24/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG986389-2 QC Sample: L1708264-06 Client ID: C-COMP						
pH (H)	8.6	9.1	SU	6	Q	5

Project Name: KINGS PLAZA - AREA C

Project Number: 15026

Lab Number: L1708264

Report Date: 03/24/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 20-MAR-17 07:23

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1708264-01A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH-TPH-CAT2(14),NJ-8260(14),TS(7)
L1708264-01X	Vial MeOH preserved split	A	N/A	2.1	Y	Absent	NJ-8260(14)
L1708264-01Y	Vial Water preserved split	A	N/A	2.1	Y	Absent	NJ-8260(14)
L1708264-01Z	Vial Water preserved split	A	N/A	2.1	Y	Absent	NJ-8260(14)
L1708264-02A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH-TPH-CAT2(14),TS(7)
L1708264-03A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH-TPH-CAT2(14),TS(7)
L1708264-04A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH-TPH-CAT2(14),TS(7)
L1708264-05A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH-TPH-CAT2(14),TS(7)
L1708264-06A	Glass 250ml/8oz unpreserved	A	N/A	2.1	Y	Absent	TCLP-EXT-ZHE(14)
L1708264-06B	Glass 500ml/16oz unpreserved	A	N/A	2.1	Y	Absent	HOLD-CONTINGENCY(14),IGNIT-1030(14),REACTS(14),TCN-9010(14),NJ-8082(14),NJ-8270(14),TS(7),PH-9045(1),PAINTF(),NJ-8081(14),REACTCN(14)
L1708264-06C	Glass 60ml unpreserved split	A	N/A	2.1	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1708264-06U	Vial unpreserved Extracts	A	N/A	2.1	Y	Absent	TCLP-VOA(14)
L1708264-06V	Vial unpreserved Extracts	A	N/A	2.1	Y	Absent	TCLP-VOA(14)
L1708264-06X	Plastic 120ml HNO3 preserved Ext	A	<2	2.1	Y	Absent	CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1708264-06X9	Tumble Vessel	A	N/A	2.1	Y	Absent	-

*Values in parentheses indicate holding time in days



Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers



Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: KINGS PLAZA - AREA C
Project Number: 15026

Lab Number: L1708264
Report Date: 03/24/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

Published Date: 1/16/2017 11:00:05 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** NPW and SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**EPA 9012B:** NPW: Total Cyanide**EPA 9050A:** NPW: Specific Conductance**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****SM 2540D:** TSS**EPA 3005A** NPW**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.****Mansfield Facility:****Drinking Water****EPA 200.7:** Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW JERSEY CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>1</u> of <u>1</u>		Date Rec'd in Lab 3/18/17		ALPHA Job # L1708264						
		Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288										
Client Information Client: <u>ANTENNADOCUMENTALGVC</u> Address: <u>PO BOX 128</u> <u>SAYREVILLE NJ 08871</u> Phone: <u>732 613 1660</u> Fax: <u>732 613 1536</u> Email: <u>DANAGNOS@ANTSNV.COM</u>		Project Information Project Name: <u>KINGS PLAZA - ANSA C</u> Project Location: <u>BROOKLYN NY</u> Project # <u>15026</u> (Use Project name as Project #) ☐		Deliverables ☐ NJ Full / Reduced ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☒ Other <u>RESULTS ONLY</u>		Billing Information ☒ Same as Client Info PO # <u>15026 -DA</u>								
		Project Manager: <u>DAVID ANAGNOS</u> ALPHAQuote #: _____ Turn-Around Time Standard ☒ Due Date: _____ Rush (only if pre approved) ☐ # of Days: _____		Regulatory Requirement ☒ SRS Residential/Non Residential ☐ SRS Impact to Groundwater ☐ NJ Ground Water Quality Standards ☐ NJ IGW SPLP Leachate Criteria ☐ Other _____		Site Information Is this site impacted by Petroleum? Yes ☐ Petroleum Product: _____								
These samples have been previously analyzed by Alpha ☐		For EPH, selection is REQUIRED: ☐ Category 1 ☐ Category 2		For VOC, selection is REQUIRED: ☐ 1,4-Dioxane ☐ 8011		Other project specific requirements/comments: <u>CONTINGENCY INCLUDES: TELP SEMI VO</u> <u>TELP PEST / HENB</u> <u>SEWAGE ANALYSIS</u> Please specify Metals or TAL.		ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do ☐ Lab to do (Please Specify below)		Total Bottles		
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		HD3 TOTAL VO TELP XL-NO VO ROLA CHAN TELP METALS +3 TELP VOLATILES PRINT FILTR CONTINGENCY *			Sample Specific Comments	
08264 -01		C-1		03-17-17 12:30 PM		S		[Signature]		✓		✓		
02		C-2				S		[Signature]		✓		✓		
03		C-3				S		[Signature]		✓		✓		
04		C-4				S		[Signature]		✓		✓		
05		C-5				S		[Signature]		✓		✓		
06		C-COMP				S		[Signature]		✓		✓		
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type		Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)				
Relinquished By: <u>[Signature]</u>		Date/Time: <u>03-17-17 19:50</u>		Received By: <u>[Signature]</u>		Date/Time: <u>3/17/17 08:00</u>								
<u>[Signature]</u>		<u>3/17/17 19:50</u>		<u>[Signature]</u>		<u>3/17/17 08:00</u>								
<u>[Signature]</u>		<u>3/17/17 01:30</u>		<u>[Signature]</u>		<u>3/18/17 01:30</u>								

JOB: L1708267 REPORT STYLE: Data Usability Report
0010: Alpha Analytical Report Cover Page - OK
0015: Sample Cross Reference Summary - OK
0060: Case Narrative - OK
0100: Volatiles Cover Page - OK
0110: Volatiles Sample Results - OK
0120: Volatiles Method Blank Report - OK
0130: Volatiles LCS Report - OK
0180: Semivolatiles Cover Page - OK
0190: Semivolatiles Sample Results - OK
0200: Semivolatiles Method Blank Report - OK
0210: Semivolatiles LCS Report - OK
0290: Petroleum Cover Page - OK
0300: Petroleum Sample Results - OK
0310: Petroleum Method Blank Report - OK
0320: Petroleum LCS Report - OK
0350: Petroleum Duplicate Report - OK
0700: PCBs Cover Page - OK
0710: PCBs Sample Results - OK
0720: PCBs Method Blank Report - OK
0730: PCBs LCS Report - OK
0900: Pesticides Cover Page - OK
0910: Pesticides Sample Results - OK
0920: Pesticides Method Blank Report - OK
0930: Pesticides LCS Report - OK
1005: Metals Sample Results - OK
1010: Metals Method Blank Report - OK
1020: Metals LCS Report - OK
1180: Inorganics Cover Page - OK
1190: Ignitability Results - OK
1200: Wet Chemistry Sample Results - OK
1210: Wet Chemistry Method Blank Report - OK
1220: Wet Chemistry LCS Report - OK
1250: Wet Chemistry Duplicate Report - OK
5100: Sample Receipt & Container Information Report - OK
5200: Glossary - OK
5400: References - OK



ANALYTICAL REPORT

Lab Number:	L1708267
Client:	AWT Environmental Services, Inc. P.O. Box 128 Sayreville, NJ 08871
ATTN:	David Anagnos
Phone:	(732) 613-1660
Project Name:	KINGS PLAZA - AREA D
Project Number:	15026
Report Date:	03/24/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1708267-01	D-1	SOIL	BROOKLYN, NY	03/17/17 13:30	03/17/17
L1708267-02	D-2	SOIL	BROOKLYN, NY	03/17/17 13:30	03/17/17
L1708267-03	D-3	SOIL	BROOKLYN, NY	03/17/17 13:30	03/17/17
L1708267-04	D-4	SOIL	BROOKLYN, NY	03/17/17 13:30	03/17/17
L1708267-05	D-5	SOIL	BROOKLYN, NY	03/17/17 13:30	03/17/17
L1708267-06	D-COMP	SOIL	BROOKLYN, NY	03/17/17 13:30	03/17/17

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

Case Narrative (continued)

Report Submission

This is a partial report. A final report will be issued as soon as the results of all requested analyses become available.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L1708267-01: The surrogate recoveries are outside the acceptance criteria for 4-bromofluorobenzene (137%); however, the sample was not re-analyzed due to coelution with obvious interferences. A copy of the chromatogram is included as an attachment to this report.

The WG986909-5 Method Blank, associated with L1708267-01, has concentrations above the reporting limits for chloromethane and bromomethane. Since the sample was non-detect to the RL for these target analytes, no further actions were taken. The results of the original analysis are reported.

TCLP Volatiles

L1708267-06 and WG987809-5: The ambient temperature of the area in which the TCLP/SPLP extraction was performed was outside the required 21-25 degrees C temperature range.

Semivolatile Organics

WG986432-2/-3: One or more compounds failed to meet the recovery and/or RPD limits. Please refer to the QC section of the report for specific details.

NJ EPH

The WG987666 MS was not analyzed because the dilution required by the elevated concentrations of non-target compounds present in the native sample would have caused the spike compounds to be diluted below the range of calibration.

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

Case Narrative (continued)

NJ EPH (Total)

WG986528: The Matrix Spike and Laboratory Duplicate required fractionation; therefore, the results are not reported for this analysis.

Total Metals

L1708267-06: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Cristin Walker

Title: Technical Director/Representative

Date: 03/24/17

ORGANICS

VOLATILES

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-01
Client ID: D-1
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/20/17 20:46
Analyst: MV
Percent Solids: 89%

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0034	0.00044	1
1,4-Dioxane	ND		mg/kg	0.045	0.016	1
1,2-Dibromoethane	ND		mg/kg	0.0034	0.00022	1
Methylene chloride	ND		mg/kg	0.0056	0.0018	1
1,1-Dichloroethane	ND		mg/kg	0.0017	0.00030	1
Chloroform	ND		mg/kg	0.0017	0.00041	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00039	1
1,2-Dichloropropane	ND		mg/kg	0.0039	0.00026	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00020	1
1,1,2-Trichloroethane	ND		mg/kg	0.0017	0.00035	1
Tetrachloroethene	0.097		mg/kg	0.0011	0.00034	1
Chlorobenzene	ND		mg/kg	0.0011	0.00039	1
Trichlorofluoromethane	ND		mg/kg	0.0056	0.00047	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
1,1,1-Trichloroethane	ND		mg/kg	0.0011	0.00039	1
Bromodichloromethane	ND		mg/kg	0.0011	0.00034	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00023	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00026	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0011	0.00023	1
Bromoform	ND		mg/kg	0.0045	0.00026	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0011	0.00033	1
Benzene	ND		mg/kg	0.0011	0.00022	1
Toluene	ND		mg/kg	0.0017	0.00022	1
Ethylbenzene	ND		mg/kg	0.0011	0.00019	1
Chloromethane	ND		mg/kg	0.0056	0.00049	1
Bromomethane	ND		mg/kg	0.0022	0.00038	1
Vinyl chloride	0.0023		mg/kg	0.0022	0.00035	1
Chloroethane	ND		mg/kg	0.0022	0.00035	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00042	1
trans-1,2-Dichloroethene	0.00038	J	mg/kg	0.0017	0.00027	1

Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-01
 Client ID: D-1
 Sample Location: BROOKLYN, NY

Date Collected: 03/17/17 13:30
 Date Received: 03/17/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.0094		mg/kg	0.0011	0.00034	1
1,2-Dichlorobenzene	ND		mg/kg	0.0056	0.00020	1
1,3-Dichlorobenzene	ND		mg/kg	0.0056	0.00024	1
1,4-Dichlorobenzene	ND		mg/kg	0.0056	0.00020	1
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00017	1
p/m-Xylene	ND		mg/kg	0.0022	0.00039	1
o-Xylene	ND		mg/kg	0.0022	0.00038	1
Xylene (Total)	ND		mg/kg	0.0022	0.00038	1
cis-1,2-Dichloroethene	0.0072		mg/kg	0.0011	0.00038	1
1,2-Dichloroethene (total)	0.0076	J	mg/kg	0.0011	0.00027	1
Styrene	ND		mg/kg	0.0022	0.00045	1
Dichlorodifluoromethane	ND		mg/kg	0.011	0.00056	1
Acetone	0.021	J	mg/kg	0.040	0.0026	1
Carbon disulfide	ND		mg/kg	0.011	0.0012	1
2-Butanone	0.0046	J	mg/kg	0.011	0.00077	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.00027	1
2-Hexanone	ND		mg/kg	0.011	0.00075	1
Bromochloromethane	ND		mg/kg	0.0056	0.00040	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00022	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0056	0.00028	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0056	0.00024	1
Methyl Acetate	ND		mg/kg	0.0045	0.00052	1
Cyclohexane	ND		mg/kg	0.022	0.00048	1
Methyl cyclohexane	ND		mg/kg	0.0045	0.00027	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.022	0.00058	1

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-01
Client ID: D-1
Sample Location: BROOKLYN, NY

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Volatile Organics by GC/MS - Westborough Lab

Tentatively Identified Compounds

Total TIC Compounds	1.76	J	mg/kg	1
1,3,5-Trimethyladamantane	0.091	NJ	mg/kg	1
Unknown Cyclohexane	0.152	J	mg/kg	1
Unknown Naphthalene	0.199	J	mg/kg	1
Unknown Naphthalene	0.054	J	mg/kg	1
Decane, 2,3,7-trimethyl-	0.088	NJ	mg/kg	1
Unknown	0.046	J	mg/kg	1
Unknown	0.066	J	mg/kg	1
Unknown	0.071	J	mg/kg	1
Unknown	0.120	J	mg/kg	1
Unknown	0.262	J	mg/kg	1
Unknown	0.094	J	mg/kg	1
Unknown	0.118	J	mg/kg	1
Unknown	0.253	J	mg/kg	1
Unknown	0.062	J	mg/kg	1
Unknown	0.085	J	mg/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	137	Q	70-130
Dibromofluoromethane	99		70-130

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-06
Client ID: D-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/23/17 13:01
Analyst: KD
Percent Solids: 88%
TCLP/SPLP Ext. Date: 03/22/17 14:13

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	1.6	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	75		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
dibromofluoromethane	94		70-130

Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/20/17 13:30
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG986909-5					
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.00040
1,4-Dioxane	ND		mg/kg	0.040	0.014
1,2-Dibromoethane	ND		mg/kg	0.0030	0.00020
Methylene chloride	0.0020	J	mg/kg	0.0050	0.0016
1,1-Dichloroethane	ND		mg/kg	0.0015	0.00027
Chloroform	ND		mg/kg	0.0015	0.00037
Carbon tetrachloride	ND		mg/kg	0.0010	0.00034
1,2-Dichloropropane	ND		mg/kg	0.0035	0.00023
Dibromochloromethane	ND		mg/kg	0.0010	0.00018
1,1,2-Trichloroethane	ND		mg/kg	0.0015	0.00031
2-Chloroethylvinyl ether	ND		mg/kg	0.020	0.00062
Tetrachloroethene	ND		mg/kg	0.0010	0.00030
Chlorobenzene	ND		mg/kg	0.0010	0.00035
Trichlorofluoromethane	ND		mg/kg	0.0050	0.00042
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00025
1,1,1-Trichloroethane	ND		mg/kg	0.0010	0.00035
Bromodichloromethane	ND		mg/kg	0.0010	0.00031
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00021
cis-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00023
1,3-Dichloropropene, Total	ND		mg/kg	0.0010	0.00021
1,1-Dichloropropene	ND		mg/kg	0.0050	0.00033
Bromoform	ND		mg/kg	0.0040	0.00024
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00030
Benzene	ND		mg/kg	0.0010	0.00019
Toluene	0.00021	J	mg/kg	0.0015	0.00020
Ethylbenzene	ND		mg/kg	0.0010	0.00017
Chloromethane	0.010		mg/kg	0.0050	0.00044
Bromomethane	0.012		mg/kg	0.0020	0.00034
Vinyl chloride	ND		mg/kg	0.0020	0.00032

Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/20/17 13:30
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG986909-5					
Chloroethane	ND		mg/kg	0.0020	0.00032
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00037
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00024
Trichloroethene	ND		mg/kg	0.0010	0.00030
1,2-Dichlorobenzene	ND		mg/kg	0.0050	0.00018
1,3-Dichlorobenzene	ND		mg/kg	0.0050	0.00022
1,4-Dichlorobenzene	ND		mg/kg	0.0050	0.00018
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00015
p/m-Xylene	ND		mg/kg	0.0020	0.00035
o-Xylene	ND		mg/kg	0.0020	0.00034
Xylene (Total)	ND		mg/kg	0.0020	0.00034
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00034
1,2-Dichloroethene (total)	ND		mg/kg	0.0010	0.00024
Dibromomethane	ND		mg/kg	0.010	0.00024
1,4-Dichlorobutane	ND		mg/kg	0.010	0.00016
1,2,3-Trichloropropane	ND		mg/kg	0.010	0.00018
Styrene	ND		mg/kg	0.0020	0.00040
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00050
Acetone	0.0046	J	mg/kg	0.036	0.0023
Carbon disulfide	ND		mg/kg	0.010	0.0011
2-Butanone	ND		mg/kg	0.010	0.00069
Vinyl acetate	ND		mg/kg	0.010	0.00015
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.00024
2-Hexanone	ND		mg/kg	0.010	0.00067
Ethyl methacrylate	ND		mg/kg	0.010	0.00017
Acrolein	ND		mg/kg	0.025	0.0080
Acrylonitrile	ND		mg/kg	0.0040	0.00051
Bromochloromethane	ND		mg/kg	0.0050	0.00036
Tetrahydrofuran	ND		mg/kg	0.020	0.0010

Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/20/17 13:30
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG986909-5					
2,2-Dichloropropane	ND		mg/kg	0.0050	0.00045
1,3-Dichloropropane	ND		mg/kg	0.0050	0.00018
1,1,1,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00032
Bromobenzene	ND		mg/kg	0.0050	0.00022
n-Butylbenzene	ND		mg/kg	0.0010	0.00023
sec-Butylbenzene	ND		mg/kg	0.0010	0.00022
tert-Butylbenzene	ND		mg/kg	0.0050	0.00025
o-Chlorotoluene	ND		mg/kg	0.0050	0.00022
p-Chlorotoluene	ND		mg/kg	0.0050	0.00018
Hexachlorobutadiene	ND		mg/kg	0.0050	0.00035
Isopropylbenzene	ND		mg/kg	0.0010	0.00019
p-Isopropyltoluene	ND		mg/kg	0.0010	0.00020
Naphthalene	0.00037	J	mg/kg	0.0050	0.00014
n-Propylbenzene	ND		mg/kg	0.0010	0.00022
1,2,3-Trichlorobenzene	ND		mg/kg	0.0050	0.00025
1,2,4-Trichlorobenzene	ND		mg/kg	0.0050	0.00022
1,3,5-Trimethylbenzene	ND		mg/kg	0.0050	0.00016
1,2,4-Trimethylbenzene	ND		mg/kg	0.0050	0.00019
trans-1,4-Dichloro-2-butene	ND		mg/kg	0.0050	0.00039
Ethyl ether	ND		mg/kg	0.0050	0.00026
Methyl Acetate	ND		mg/kg	0.0040	0.00046
Ethyl Acetate	ND		mg/kg	0.020	0.0020
Isopropyl Ether	ND		mg/kg	0.0040	0.00028
Cyclohexane	ND		mg/kg	0.020	0.00043
tert-Butyl Alcohol	ND		mg/kg	0.10	0.0029
Ethyl-Tert-Butyl-Ether	ND		mg/kg	0.0040	0.00018
Tertiary-Amyl Methyl Ether	ND		mg/kg	0.0040	0.00023
Methyl cyclohexane	ND		mg/kg	0.0040	0.00024
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.020	0.00051

Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/20/17 13:30
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG986909-5					
1,2,4,5-Tetramethylbenzene	ND		mg/kg	0.0040	0.00016
1,4-Diethylbenzene	ND		mg/kg	0.0040	0.0040
4-Ethyltoluene	ND		mg/kg	0.0040	0.00023

Tentatively Identified Compounds

Total TIC Compounds	0.008	J	mg/kg
Pentane, 2-methyl-	0.003	NJ	mg/kg
Unknown	0.003	J	mg/kg
Methane, iodo-	0.002	NJ	mg/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	89		70-130

Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 03/23/17 07:35

Analyst: MM

Extraction Date: 03/22/17 14:13

TCLP/SPLP Extraction Date: 03/22/17 14:13

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 06 Batch: WG987809-5					
Chloroform	ND		ug/l	7.5	1.6
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
dibromofluoromethane	104		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG986909-3 WG986909-4								
1,2-Dibromo-3-chloropropane	97		105		40-160	8		30
1,4-Dioxane	102		117		40-160	14		30
1,2-Dibromoethane	108		112		70-130	4		30
Methylene chloride	98		100		70-130	2		30
1,1-Dichloroethane	111		110		70-130	1		30
Chloroform	109		109		70-130	0		30
Carbon tetrachloride	122		122		70-130	0		30
1,2-Dichloropropane	108		109		70-130	1		30
Dibromochloromethane	113		115		70-130	2		30
1,1,2-Trichloroethane	108		110		70-130	2		30
2-Chloroethylvinyl ether	123		135		40-160	9		30
Tetrachloroethene	119		117		70-130	2		30
Chlorobenzene	111		112		70-130	1		30
Trichlorofluoromethane	126		122		40-160	3		30
1,2-Dichloroethane	106		109		70-130	3		30
1,1,1-Trichloroethane	117		117		70-130	0		30
Bromodichloromethane	111		111		70-130	0		30
trans-1,3-Dichloropropene	114		116		70-130	2		30
cis-1,3-Dichloropropene	111		112		40-160	1		30
1,1-Dichloropropene	116		117		70-130	1		30
Bromoform	102		105		40-160	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG986909-3 WG986909-4								
1,1,2,2-Tetrachloroethane	106		112		40-160	6		30
Benzene	110		110		70-130	0		30
Toluene	111		110		70-130	1		30
Ethylbenzene	113		112		70-130	1		30
Chloromethane	102		104		40-160	2		30
Bromomethane	125		119		40-160	5		30
Vinyl chloride	116		115		70-130	1		30
Chloroethane	119		115		40-160	3		30
1,1-Dichloroethene	117		118		70-130	1		30
trans-1,2-Dichloroethene	113		112		70-130	1		30
Trichloroethene	112		113		70-130	1		30
1,2-Dichlorobenzene	108		108		70-130	0		30
1,3-Dichlorobenzene	112		111		70-130	1		30
1,4-Dichlorobenzene	111		110		70-130	1		30
Methyl tert butyl ether	104		106		70-130	2		30
p/m-Xylene	114		114		70-130	0		30
o-Xylene	112		112		70-130	0		30
cis-1,2-Dichloroethene	111		112		70-130	1		30
Dibromomethane	107		108		70-130	1		30
1,4-Dichlorobutane	105		108		70-130	3		30
1,2,3-Trichloropropane	106		111		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG986909-3 WG986909-4								
Styrene	112		112		40-160	0		30
Dichlorodifluoromethane	124		124		40-160	0		30
Acetone	101		108		40-160	7		30
Carbon disulfide	113		117		40-160	3		30
2-Butanone	91		100		40-160	9		30
Vinyl acetate	106		111		70-130	5		30
4-Methyl-2-pentanone	104		111		40-160	7		30
2-Hexanone	103		110		40-160	7		30
Ethyl methacrylate	108		112		70-130	4		30
Acrolein	91		94		40-160	3		30
Acrylonitrile	100		106		70-130	6		30
Bromochloromethane	112		113		70-130	1		30
Tetrahydrofuran	101		105		70-130	4		30
2,2-Dichloropropane	120		119		40-160	1		30
1,3-Dichloropropane	109		110		70-130	1		30
1,1,1,2-Tetrachloroethane	116		116		70-130	0		30
Bromobenzene	110		110		70-130	0		30
n-Butylbenzene	118		118		70-130	0		30
sec-Butylbenzene	117		116		70-130	1		30
tert-Butylbenzene	115		114		70-130	1		30
o-Chlorotoluene	111		109		70-130	2		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG986909-3 WG986909-4								
p-Chlorotoluene	112		112		70-130	0		30
Hexachlorobutadiene	122		120		70-130	2		30
Isopropylbenzene	116		114		70-130	2		30
p-Isopropyltoluene	117		116		70-130	1		30
Naphthalene	105		110		40-160	5		30
n-Propylbenzene	115		114		70-130	1		30
1,2,3-Trichlorobenzene	112		114		70-130	2		30
1,2,4-Trichlorobenzene	116		116		70-130	0		30
1,3,5-Trimethylbenzene	114		113		70-130	1		30
1,2,4-Trimethylbenzene	113		112		70-130	1		30
trans-1,4-Dichloro-2-butene	110		117		70-130	6		30
Ethyl ether	104		108		70-130	4		30
Methyl Acetate	94		102		70-130	8		30
Ethyl Acetate	96		104		70-130	8		30
Isopropyl Ether	100		102		70-130	2		30
Cyclohexane	113		114		70-130	1		30
tert-Butyl Alcohol	90		93		40-160	3		30
Ethyl-Tert-Butyl-Ether	101		102		70-130	1		30
Tertiary-Amyl Methyl Ether	99		102		70-130	3		30
Methyl cyclohexane	114		116		70-130	2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	114		118		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG986909-3 WG986909-4								
1,2,4,5-Tetramethylbenzene	110		109		70-130	1		30
1,4-Diethylbenzene	112		112		70-130	0		30
4-Ethyltoluene	110		109		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		98		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	98		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 06 Batch: WG987809-3 WG987809-4								
Chloroform	110		120		70-130	9		20
Carbon tetrachloride	110		100		63-132	10		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	110		100		75-130	10		25
1,2-Dichloroethane	120		120		70-130	0		20
Benzene	110		110		70-130	0		25
Vinyl chloride	120		120		55-140	0		20
1,1-Dichloroethene	100		100		61-145	0		25
Trichloroethene	110		110		70-130	0		25
1,4-Dichlorobenzene	100		100		70-130	0		20
2-Butanone	110		120		63-138	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	95		93		70-130
dibromofluoromethane	102		98		70-130

SEMIVOLATILES

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-06
Client ID: D-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/20/17 06:15
Analyst: RC
Percent Solids: 88%

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/18/17 12:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	0.27		mg/kg	0.15	0.016	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
Hexachlorobenzene	ND		mg/kg	0.053	0.018	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.067	0.022	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.14	0.048	1
2,4-Dinitrotoluene	ND		mg/kg	0.092	0.031	1
2,6-Dinitrotoluene	ND		mg/kg	0.074	0.024	1
Fluoranthene	0.27		mg/kg	0.11	0.021	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.016	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.021	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.018	1
Hexachlorobutadiene	ND		mg/kg	0.069	0.023	1
Hexachlorocyclopentadiene	ND		mg/kg	0.53	0.12	1
Hexachloroethane	ND		mg/kg	0.090	0.030	1
Isophorone	ND		mg/kg	0.062	0.021	1
Naphthalene	0.59		mg/kg	0.18	0.023	1
Nitrobenzene	ND		mg/kg	0.082	0.027	1
NDPA/DPA	ND		mg/kg	0.046	0.015	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.047	0.016	1
Bis(2-ethylhexyl)phthalate	12.	E	mg/kg	0.18	0.019	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.025	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.016	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.058	1
Diethyl phthalate	ND		mg/kg	0.18	0.017	1
Dimethyl phthalate	ND		mg/kg	0.18	0.018	1
Benzo(a)anthracene	0.098		mg/kg	0.062	0.021	1
Benzo(a)pyrene	0.078	J	mg/kg	0.14	0.045	1
Benzo(b)fluoranthene	0.10		mg/kg	0.047	0.015	1
Benzo(k)fluoranthene	0.036	J	mg/kg	0.039	0.013	1
Chrysene	0.12		mg/kg	0.11	0.019	1

Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-06

Date Collected: 03/17/17 13:30

Client ID: D-COMP

Date Received: 03/17/17

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthylene	ND		mg/kg	0.15	0.021	1
Anthracene	0.14		mg/kg	0.11	0.016	1
Benzo(ghi)perylene	0.065	J	mg/kg	0.15	0.022	1
Fluorene	0.36		mg/kg	0.18	0.018	1
Phenanthrene	0.85		mg/kg	0.11	0.013	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.065	0.021	1
Indeno(1,2,3-cd)pyrene	0.052	J	mg/kg	0.078	0.026	1
Pyrene	0.36		mg/kg	0.11	0.016	1
4-Chloroaniline	ND		mg/kg	0.18	0.021	1
2-Nitroaniline	ND		mg/kg	0.18	0.034	1
3-Nitroaniline	ND		mg/kg	0.18	0.035	1
4-Nitroaniline	ND		mg/kg	0.18	0.077	1
Dibenzofuran	ND		mg/kg	0.18	0.016	1
2-Methylnaphthalene	2.7		mg/kg	0.22	0.020	1
2,4,6-Trichlorophenol	ND		mg/kg	0.10	0.035	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.028	1
2-Chlorophenol	ND		mg/kg	0.061	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.089	0.030	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.059	1
2-Nitrophenol	ND		mg/kg	0.40	0.030	1
2,4-Dinitrophenol	ND		mg/kg	0.27	0.086	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.27	0.089	1
Pentachlorophenol	ND		mg/kg	0.12	0.041	1
Phenol	ND		mg/kg	0.18	0.022	1
2-Methylphenol	ND		mg/kg	0.18	0.029	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.27	0.027	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.036	1
Carbazole	ND		mg/kg	0.18	0.012	1
4-Nitrophenol	ND		mg/kg	0.26	0.052	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.021	1
Benzaldehyde	ND		mg/kg	0.24	0.029	1
Caprolactam	ND		mg/kg	0.18	0.040	1
Acetophenone	ND		mg/kg	0.18	0.019	1
Biphenyl	ND		mg/kg	0.42	0.043	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.019	1
Atrazine	ND		mg/kg	0.15	0.065	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.038	1

Project Name: KINGS PLAZA - AREA D**Lab Number:** L1708267**Project Number:** 15026**Report Date:** 03/24/17**SAMPLE RESULTS****Lab ID:** L1708267-06**Date Collected:** 03/17/17 13:30**Client ID:** D-COMP**Date Received:** 03/17/17**Sample Location:** BROOKLYN, NY**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Tentatively Identified Compounds

Total TIC Compounds	30.0	J	mg/kg	1
Unknown Naphthalene	2.40	J	mg/kg	1
Unknown Naphthalene	1.79	J	mg/kg	1
Unknown Naphthalene	1.61	J	mg/kg	1
Unknown	1.57	J	mg/kg	1
Unknown Naphthalene	1.86	J	mg/kg	1
Unknown Alkane	1.90	J	mg/kg	1
Unknown Naphthalene	1.76	J	mg/kg	1
Unknown Alkane	1.34	J	mg/kg	1
Unknown Naphthalene	3.02	J	mg/kg	1
Naphthalene, 1-methyl-	1.35	NJ	mg/kg	1
Unknown Naphthalene	1.49	J	mg/kg	1
Unknown Alkane	2.92	J	mg/kg	1
Unknown Alkane	2.81	J	mg/kg	1
Unknown	2.46	J	mg/kg	1
Unknown Naphthalene	1.69	J	mg/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		30-130
Phenol-d6	84		30-130
Nitrobenzene-d5	93		30-130
2-Fluorobiphenyl	67		30-130
2,4,6-Tribromophenol	87		30-130
4-Terphenyl-d14	62		30-130

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-06 D
Client ID: D-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/21/17 17:52
Analyst: CB
Percent Solids: 88%

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/18/17 12:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Bis(2-ethylhexyl)phthalate	10.		mg/kg	0.37	0.038	2

Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/19/17 23:29
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG986432-1					
Acenaphthene	ND		mg/kg	0.13	0.014
2-Chloronaphthalene	ND		mg/kg	0.16	0.015
Hexachlorobenzene	ND		mg/kg	0.047	0.015
Bis(2-chloroethyl)ether	ND		mg/kg	0.058	0.020
3,3'-Dichlorobenzidine	ND		mg/kg	0.12	0.042
2,4-Dinitrotoluene	ND		mg/kg	0.081	0.027
2,6-Dinitrotoluene	ND		mg/kg	0.064	0.021
Fluoranthene	ND		mg/kg	0.097	0.019
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.014
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.19	0.019
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.015
Hexachlorobutadiene	ND		mg/kg	0.060	0.020
Hexachlorocyclopentadiene	ND		mg/kg	0.46	0.10
Hexachloroethane	ND		mg/kg	0.079	0.026
Isophorone	ND		mg/kg	0.054	0.018
Naphthalene	ND		mg/kg	0.16	0.020
Nitrobenzene	ND		mg/kg	0.072	0.024
NDPA/DPA	ND		mg/kg	0.040	0.013
n-Nitrosodi-n-propylamine	ND		mg/kg	0.041	0.014
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.16	0.017
Butyl benzyl phthalate	ND		mg/kg	0.16	0.022
Di-n-butylphthalate	ND		mg/kg	0.16	0.014
Di-n-octylphthalate	ND		mg/kg	0.16	0.051
Diethyl phthalate	ND		mg/kg	0.16	0.015
Dimethyl phthalate	ND		mg/kg	0.16	0.016
Benzo(a)anthracene	ND		mg/kg	0.054	0.018
Benzo(a)pyrene	ND		mg/kg	0.12	0.040
Benzo(b)fluoranthene	ND		mg/kg	0.041	0.014
Benzo(k)fluoranthene	ND		mg/kg	0.034	0.011

Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/19/17 23:29
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG986432-1					
Chrysene	ND		mg/kg	0.097	0.017
Acenaphthylene	ND		mg/kg	0.13	0.018
Anthracene	ND		mg/kg	0.097	0.014
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019
Fluorene	ND		mg/kg	0.16	0.016
Phenanthrene	ND		mg/kg	0.097	0.012
Dibenzo(a,h)anthracene	ND		mg/kg	0.056	0.019
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.068	0.023
Pyrene	ND		mg/kg	0.097	0.014
4-Chloroaniline	ND		mg/kg	0.16	0.019
2-Nitroaniline	ND		mg/kg	0.16	0.030
3-Nitroaniline	ND		mg/kg	0.16	0.031
4-Nitroaniline	ND		mg/kg	0.16	0.067
Dibenzofuran	ND		mg/kg	0.16	0.014
2-Methylnaphthalene	ND		mg/kg	0.19	0.017
2,4,6-Trichlorophenol	ND		mg/kg	0.092	0.031
p-Chloro-m-cresol	ND		mg/kg	0.16	0.024
2-Chlorophenol	ND		mg/kg	0.054	0.018
2,4-Dichlorophenol	ND		mg/kg	0.078	0.026
2,4-Dimethylphenol	ND		mg/kg	0.15	0.052
2-Nitrophenol	ND		mg/kg	0.35	0.027
2,4-Dinitrophenol	ND		mg/kg	0.23	0.076
4,6-Dinitro-o-cresol	ND		mg/kg	0.23	0.078
Pentachlorophenol	ND		mg/kg	0.11	0.036
Phenol	ND		mg/kg	0.16	0.019
2-Methylphenol	ND		mg/kg	0.16	0.025
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.23	0.023
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.031
Carbazole	ND		mg/kg	0.16	0.010

Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/19/17 23:29
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/18/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG986432-1					
4-Nitrophenol	ND		mg/kg	0.23	0.045
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.018
Benzaldehyde	ND		mg/kg	0.21	0.025
Caprolactam	ND		mg/kg	0.16	0.035
Acetophenone	ND		mg/kg	0.16	0.017
Biphenyl	ND		mg/kg	0.37	0.038
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017
Atrazine	ND		mg/kg	0.13	0.057
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033

Tentatively Identified Compounds

No Tentatively Identified Compounds ND mg/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		30-130
Phenol-d6	82		30-130
Nitrobenzene-d5	82		30-130
2-Fluorobiphenyl	81		30-130
2,4,6-Tribromophenol	93		30-130
4-Terphenyl-d14	93		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG986432-2 WG986432-3								
Acenaphthene	82		75		70-130	9		30
2-Chloronaphthalene	83		76		70-130	9		30
Hexachlorobenzene	81		74		70-130	9		30
Bis(2-chloroethyl)ether	80		72		70-130	11		30
3,3'-Dichlorobenzidine	60	Q	55	Q	70-130	9		30
2,4-Dinitrotoluene	85		80		70-130	6		30
2,6-Dinitrotoluene	97		89		70-130	9		30
Fluoranthene	87		80		70-130	8		30
4-Chlorophenyl phenyl ether	81		74		70-130	9		30
Bis(2-chloroisopropyl)ether	92		83		70-130	10		30
Bis(2-chloroethoxy)methane	88		79		70-130	11		30
Hexachlorobutadiene	74		67	Q	70-130	10		30
Hexachlorocyclopentadiene	75		69		20-160	8		30
Hexachloroethane	76		70		20-160	8		30
Isophorone	90		80		70-130	12		30
Naphthalene	78		72		70-130	8		30
Nitrobenzene	87		80		70-130	8		30
NDPA/DPA	85		79		70-130	7		30
n-Nitrosodi-n-propylamine	89		82		70-130	8		30
Bis(2-ethylhexyl)phthalate	90		81		70-130	11		30
Butyl benzyl phthalate	88		82		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG986432-2 WG986432-3								
Di-n-butylphthalate	94		86		70-130	9		30
Di-n-octylphthalate	92		85		70-130	8		30
Diethyl phthalate	86		78		70-130	10		30
Dimethyl phthalate	87		79		70-130	10		30
Benzo(a)anthracene	85		78		70-130	9		30
Benzo(a)pyrene	90		86		70-130	5		30
Benzo(b)fluoranthene	88		84		70-130	5		30
Benzo(k)fluoranthene	85		81		70-130	5		30
Chrysene	83		77		70-130	8		30
Acenaphthylene	87		80		70-130	8		30
Anthracene	87		80		70-130	8		30
Benzo(ghi)perylene	86		79		70-130	8		30
Fluorene	84		78		70-130	7		30
Phenanthrene	83		76		70-130	9		30
Dibenzo(a,h)anthracene	85		78		70-130	9		30
Indeno(1,2,3-cd)pyrene	89		78		70-130	13		30
Pyrene	85		79		70-130	7		30
4-Chloroaniline	48		43		20-160	11		30
2-Nitroaniline	97		87		70-130	11		30
3-Nitroaniline	66	Q	62	Q	70-130	6		30
4-Nitroaniline	82		76		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG986432-2 WG986432-3								
Dibenzofuran	82		76		70-130	8		30
2-Methylnaphthalene	83		76		70-130	9		30
2,4,6-Trichlorophenol	97		86		70-130	12		30
p-Chloro-m-cresol	93		83		70-130	11		30
2-Chlorophenol	87		80		70-130	8		30
2,4-Dichlorophenol	91		83		70-130	9		30
2,4-Dimethylphenol	94		85		70-130	10		30
2-Nitrophenol	98		88		70-130	11		30
2,4-Dinitrophenol	64		57		20-160	12		30
4,6-Dinitro-o-cresol	88		81		70-130	8		30
Pentachlorophenol	74		67		20-160	10		30
Phenol	84		76		20-160	10		30
2-Methylphenol	87		79		70-130	10		30
3-Methylphenol/4-Methylphenol	90		81		20-160	11		30
2,4,5-Trichlorophenol	95		87		70-130	9		30
Carbazole	87		80		70-130	8		30
4-Nitrophenol	93		86		20-160	8		30
4-Bromophenyl phenyl ether	83		73		70-130	13		30
Benzaldehyde	75		68		20-160	10		30
Caprolactam	107		96		20-160	11		30
Acetophenone	86		79		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG986432-2 WG986432-3								
Biphenyl	84		78		70-130	7		30
1,2,4,5-Tetrachlorobenzene	80		73		70-130	9		30
Atrazine	95		84		70-130	12		30
2,3,4,6-Tetrachlorophenol	87		81		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	87		80		30-130
Phenol-d6	90		81		30-130
Nitrobenzene-d5	89		82		30-130
2-Fluorobiphenyl	83		76		30-130
2,4,6-Tribromophenol	91		84		30-130
4-Terphenyl-d14	86		78		30-130

PETROLEUM HYDROCARBONS

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-01
Client ID: D-1
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/23/17 18:32
Analyst: SR
Percent Solids: 89%

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab

Total EPH	1030		mg/kg	25.7	25.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	100		40-140
o-Terphenyl	104		40-140

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-02 D
Client ID: D-2
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/23/17 21:42
Analyst: SR
Percent Solids: 89%

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 13:49
Cleanup Method: NJDEP EPH
Cleanup Date: 03/23/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C12 Aliphatics	39.3		mg/kg	18.0	18.0	2
C12-C16 Aliphatics	283		mg/kg	12.0	12.0	2
C16-C21 Aliphatics	240		mg/kg	18.0	18.0	2
C21-C40 Aliphatics	242		mg/kg	59.8	59.8	2
C10-C12 Aromatics	ND		mg/kg	12.0	12.0	2
C12-C16 Aromatics	18.7		mg/kg	18.0	18.0	2
C16-C21 Aromatics	130		mg/kg	29.9	29.9	2
C21-C36 Aromatics	104		mg/kg	47.9	47.9	2
Total EPH	1060		mg/kg	215	215.	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	60		40-140
o-Terphenyl	91		40-140
2-Fluorobiphenyl	103		40-140
2-Bromonaphthalene	104		40-140

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-03
Client ID: D-3
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/23/17 17:30
Analyst: SR
Percent Solids: 95%

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						

Total EPH	154		mg/kg	24.4	24.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	111		40-140
o-Terphenyl	112		40-140

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-04
Client ID: D-4
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/23/17 17:30
Analyst: SR
Percent Solids: 88%

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab

Total EPH	90.4		mg/kg	26.0	26.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	91		40-140
o-Terphenyl	95		40-140

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-05
Client ID: D-5
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 03/23/17 18:01
Analyst: SR
Percent Solids: 90%

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						

Total EPH	86.8		mg/kg	26.0	26.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	104		40-140
o-Terphenyl	109		40-140

Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 103,NJDEP EPH

Extraction Method: EPA 3546

Analytical Date: 03/20/17 13:08

Extraction Date: 03/19/17 13:49

Analyst: DG

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 01,03-05 Batch: WG986528-1					
Total EPH	ND		mg/kg	23.1	23.1

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	90		40-140
o-Terphenyl	91		40-140

Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 103,NJDEP EPH

Analytical Date: 03/23/17 17:40

Analyst: SR

Extraction Method: EPA 3546

Extraction Date: 03/19/17 13:49

Cleanup Method: NJDEP EPH

Cleanup Date: 03/23/17

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 02 Batch: WG987666-1					
C9-C12 Aliphatics	ND		mg/kg	7.71	7.71
C12-C16 Aliphatics	ND		mg/kg	5.14	5.14
C16-C21 Aliphatics	ND		mg/kg	7.71	7.71
C21-C40 Aliphatics	ND		mg/kg	25.7	25.7
C10-C12 Aromatics	ND		mg/kg	5.14	5.14
C12-C16 Aromatics	ND		mg/kg	7.71	7.71
C16-C21 Aromatics	ND		mg/kg	12.8	12.8
C21-C36 Aromatics	ND		mg/kg	20.6	20.6
Total EPH	ND		mg/kg	92.5	92.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	68		40-140
2-Fluorobiphenyl	85		40-140
2-Bromonaphthalene	86		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,03-05 Batch: WG986528-2 WG986528-3								
Total EPH	103		103		40-140	0		25
Nonane (C9)	78		78		40-140	0		25
Decane (C10)	86		86		40-140	0		25
Dodecane (C12)	88		88		40-140	0		25
Tetradecane (C14)	93		91		40-140	2		25
Hexadecane (C16)	96		95		40-140	1		25
Octadecane (C18)	96		95		40-140	1		25
Eicosane (C20)	97		98		40-140	1		25
Heneicosane (C21)	90		89		40-140	1		25
Docosane (C22)	97		96		40-140	1		25
Tetracosane (C24)	96		94		40-140	2		25
Hexacosane (C26)	94		93		40-140	1		25
Octacosane (C28)	93		92		40-140	1		25
Triacontane (C30)	94		94		40-140	0		25
Dotriacontane (C32)	97		96		40-140	1		25
Tetratriacontane (C34)	96		93		40-140	3		25
Hexatriacontane (C36)	96		98		40-140	2		25
Octatriacontane (C38)	96		96		40-140	0		25
Tetracontane (C40)	91		93		40-140	2		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,03-05 Batch: WG986528-2 WG986528-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	93		87		40-140
o-Terphenyl	92		90		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 02 Batch: WG987666-2 WG987666-3								
C9-C12 Aliphatics	61		57		40-140	7		25
C12-C16 Aliphatics	80		66		40-140	19		25
C16-C21 Aliphatics	96		80		40-140	18		25
C21-C40 Aliphatics	77		67		40-140	14		25
C10-C12 Aromatics	71		64		40-140	10		25
C12-C16 Aromatics	50		48		40-140	4		25
C16-C21 Aromatics	86		77		40-140	11		25
C21-C36 Aromatics	75		68		40-140	10		25
Nonane (C9)	54		47		40-140	14		25
Decane (C10)	61		53		40-140	14		25
Dodecane (C12)	67		57		40-140	16		25
Tetradecane (C14)	70		58		40-140	19		25
Hexadecane (C16)	72		61		40-140	17		25
Octadecane (C18)	72		61		40-140	17		25
Eicosane (C20)	72		61		40-140	17		25
Heneicosane (C21)	71		60		40-140	17		25
Docosane (C22)	72		62		40-140	15		25
Tetracosane (C24)	72		61		40-140	17		25
Hexacosane (C26)	72		62		40-140	15		25
Octacosane (C28)	72		61		40-140	17		25
Triacontane (C30)	73		62		40-140	16		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 02 Batch: WG987666-2 WG987666-3								
Dotriacontane (C32)	75		63		40-140	17		25
Tetratriacontane (C34)	73		61		40-140	18		25
Hexatriacontane (C36)	74		62		40-140	18		25
Octatriacontane (C38)	72		61		40-140	17		25
Tetracontane (C40)	69		59		40-140	16		25
Acenaphthene	73		66		40-140	10		25
Acenaphthylene	68		62		40-140	9		25
Anthracene	73		66		40-140	10		25
Benzo(a)anthracene	71		64		40-140	10		25
Benzo(a)pyrene	66		60		40-140	10		25
Benzo(b)fluoranthene	75		67		40-140	11		25
Benzo(ghi)perylene	66		58		40-140	13		25
Benzo(k)fluoranthene	71		64		40-140	10		25
Chrysene	73		66		40-140	10		25
Dibenzo(a,h)anthracene	70		63		40-140	11		25
Fluoranthene	73		66		40-140	10		25
Fluorene	72		66		40-140	9		25
Indeno(1,2,3-cd)Pyrene	66		60		40-140	10		25
2-Methylnaphthalene	65		60		40-140	8		25
Naphthalene	64		59		40-140	8		25
Phenanthrene	74		67		40-140	10		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 02 Batch: WG987666-2 WG987666-3								
Pyrene	71		65		40-140	9		25
1,2,3-Trimethylbenzene	58		54		40-140	7		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	58		48		40-140
o-Terphenyl	69		61		40-140
2-Fluorobiphenyl	86		79		40-140
2-Bromonaphthalene	87		80		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

Lab Duplicate Analysis Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 02 QC Batch ID: WG987666-5 QC Sample: L1708261-02 Client ID: DUP Sample						
C9-C12 Aliphatics	55.6	98.2	mg/kg	55	Q	50
C12-C16 Aliphatics	254	389	mg/kg	42		50
C16-C21 Aliphatics	245	366	mg/kg	40		50
C21-C40 Aliphatics	143	187	mg/kg	27		50
C10-C12 Aromatics	19.6	35.8	mg/kg	58	Q	50
C12-C16 Aromatics	92.3	135	mg/kg	38		50
C16-C21 Aromatics	279	382	mg/kg	31		50
C21-C36 Aromatics	68.3	ND	mg/kg	NC		50
Total EPH	1160	1590	mg/kg	32		50
Nonane (C9)	ND	ND	mg/kg	NC		50
Decane (C10)	ND	ND	mg/kg	NC		50
Dodecane (C12)	ND	ND	mg/kg	NC		50
Tetradecane (C14)	ND	ND	mg/kg	NC		50
Hexadecane (C16)	ND	ND	mg/kg	NC		50
Octadecane (C18)	ND	ND	mg/kg	NC		50
Eicosane (C20)	ND	ND	mg/kg	NC		50
Heneicosane (C21)	ND	ND	mg/kg	NC		50
Docosane (C22)	ND	ND	mg/kg	NC		50
Tetracosane (C24)	ND	ND	mg/kg	NC		50

Lab Duplicate Analysis Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 02 QC Batch ID: WG987666-5 QC Sample: L1708261-02 Client ID: DUP Sample						
Hexacosane (C26)	ND	ND	mg/kg	NC		50
Octacosane (C28)	ND	ND	mg/kg	NC		50
Triacontane (C30)	ND	ND	mg/kg	NC		50
Dotriacontane (C32)	ND	ND	mg/kg	NC		50
Tetratriacontane (C34)	ND	ND	mg/kg	NC		50
Hexatriacontane (C36)	ND	ND	mg/kg	NC		50
Octatriacontane (C38)	ND	ND	mg/kg	NC		50
Tetracontane (C40)	ND	ND	mg/kg	NC		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	68		63		40-140
o-Terphenyl	99		97		40-140
2-Fluorobiphenyl	83		81		40-140
2-Bromonaphthalene	81		84		40-140

PCBS

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-06
Client ID: D-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/21/17 03:27
Analyst: HT
Percent Solids: 88%

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 22:06
Cleanup Method: EPA 3665A
Cleanup Date: 03/20/17
Cleanup Method: EPA 3660B
Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0371	0.00293	1	A
Aroclor 1221	ND		mg/kg	0.0371	0.00342	1	A
Aroclor 1232	ND		mg/kg	0.0371	0.00435	1	A
Aroclor 1242	ND		mg/kg	0.0371	0.00454	1	A
Aroclor 1248	ND		mg/kg	0.0371	0.00313	1	A
Aroclor 1254	ND		mg/kg	0.0371	0.00305	1	A
Aroclor 1260	ND		mg/kg	0.0371	0.00283	1	A
Aroclor 1262	ND		mg/kg	0.0371	0.00184	1	A
Aroclor 1268	ND		mg/kg	0.0371	0.00538	1	A
PCBs, Total	ND		mg/kg	0.0371	0.00184	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 03/20/17 23:13
 Analyst: JA

Extraction Method: EPA 3546
 Extraction Date: 03/19/17 21:30
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/20/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 06 Batch: WG986560-1						
Aroclor 1016	ND		mg/kg	0.0331	0.00261	A
Aroclor 1221	ND		mg/kg	0.0331	0.00305	A
Aroclor 1232	ND		mg/kg	0.0331	0.00388	A
Aroclor 1242	ND		mg/kg	0.0331	0.00405	A
Aroclor 1248	ND		mg/kg	0.0331	0.00279	A
Aroclor 1254	ND		mg/kg	0.0331	0.00272	A
Aroclor 1260	ND		mg/kg	0.0331	0.00252	A
Aroclor 1262	ND		mg/kg	0.0331	0.00164	A
Aroclor 1268	ND		mg/kg	0.0331	0.00479	A
PCBs, Total	ND		mg/kg	0.0331	0.00164	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	73		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 06 Batch: WG986560-2 WG986560-3									
Aroclor 1016	103		102		40-140	1		30	A
Aroclor 1260	109		114		40-140	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		99		30-150	A
Decachlorobiphenyl	107		111		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		94		30-150	B
Decachlorobiphenyl	76		76		30-150	B

PESTICIDES

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-06
Client ID: D-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/21/17 04:56
Analyst: DM
Percent Solids: 88%

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/19/17 20:22
Cleanup Method: EPA 3620B
Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Delta-BHC	ND		mg/kg	0.00171	0.00033	1	A
Lindane	ND		mg/kg	0.00071	0.00031	1	A
Alpha-BHC	ND		mg/kg	0.00071	0.00020	1	A
Beta-BHC	ND		mg/kg	0.00171	0.00064	1	A
Heptachlor	ND		mg/kg	0.00085	0.00038	1	A
Aldrin	ND		mg/kg	0.00171	0.00060	1	B
Heptachlor epoxide	ND		mg/kg	0.00320	0.00096	1	A
Endrin	ND		mg/kg	0.00071	0.00029	1	A
Endrin aldehyde	ND		mg/kg	0.00213	0.00074	1	A
Endrin ketone	ND		mg/kg	0.00171	0.00043	1	A
Dieldrin	ND		mg/kg	0.00107	0.00053	1	A
4,4'-DDE	0.00110	J	mg/kg	0.00171	0.00039	1	A
4,4'-DDD	0.00079	J	mg/kg	0.00171	0.00060	1	A
4,4'-DDT	ND		mg/kg	0.00320	0.00137	1	A
Endosulfan I	ND		mg/kg	0.00171	0.00040	1	A
Endosulfan II	ND		mg/kg	0.00171	0.00057	1	A
Endosulfan sulfate	ND		mg/kg	0.00071	0.00033	1	A
Methoxychlor	ND		mg/kg	0.00320	0.00099	1	A
Toxaphene	ND		mg/kg	0.0320	0.00896	1	A
Chlordane	ND		mg/kg	0.0139	0.00565	1	A
cis-Chlordane	ND		mg/kg	0.00213	0.00059	1	A
trans-Chlordane	ND		mg/kg	0.00213	0.00056	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	112		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	121		30-150	A

Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/21/17 02:32
 Analyst: RL

Extraction Method: EPA 3546
 Extraction Date: 03/19/17 20:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Pesticides by GC - Westborough Lab for sample(s): 06 Batch: WG986556-1						
Delta-BHC	ND		mg/kg	0.00152	0.00029	A
Lindane	ND		mg/kg	0.00063	0.00028	A
Alpha-BHC	ND		mg/kg	0.00063	0.00017	A
Beta-BHC	ND		mg/kg	0.00152	0.00057	A
Heptachlor	ND		mg/kg	0.00075	0.00034	A
Aldrin	ND		mg/kg	0.00152	0.00053	A
Heptachlor epoxide	ND		mg/kg	0.00284	0.00085	A
Endrin	ND		mg/kg	0.00063	0.00025	A
Endrin aldehyde	ND		mg/kg	0.00190	0.00066	A
Endrin ketone	ND		mg/kg	0.00152	0.00039	A
Dieldrin	ND		mg/kg	0.00094	0.00047	A
4,4'-DDE	ND		mg/kg	0.00152	0.00035	A
4,4'-DDD	ND		mg/kg	0.00152	0.00054	A
4,4'-DDT	ND		mg/kg	0.00284	0.00122	A
Endosulfan I	ND		mg/kg	0.00152	0.00035	A
Endosulfan II	ND		mg/kg	0.00152	0.00050	A
Endosulfan sulfate	ND		mg/kg	0.00063	0.00030	A
Methoxychlor	ND		mg/kg	0.00284	0.00088	A
Toxaphene	ND		mg/kg	0.0284	0.00796	A
Chlordane	ND		mg/kg	0.0123	0.00502	A
cis-Chlordane	ND		mg/kg	0.00190	0.00052	A
trans-Chlordane	ND		mg/kg	0.00190	0.00050	A

Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/21/17 02:32
 Analyst: RL

Extraction Method: EPA 3546
 Extraction Date: 03/19/17 20:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/20/17

Parameter	Result	Qualifier	Units	RL	MDL
Pesticides by GC - Westborough Lab for sample(s): 06 Batch: WG986556-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	102		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	118		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Pesticides by GC - Westborough Lab Associated sample(s): 06 Batch: WG986556-2 WG986556-3									
Delta-BHC	89		102		40-140	14		30	A
Lindane	89		101		40-140	13		30	A
Alpha-BHC	91		102		40-140	11		30	A
Beta-BHC	86		103		40-140	18		30	A
Heptachlor	88		97		40-140	10		30	A
Aldrin	91		101		40-140	10		30	A
Heptachlor epoxide	89		101		40-140	13		30	A
Endrin	108		123		40-140	13		30	A
Endrin aldehyde	79		88		40-140	11		30	A
Endrin ketone	91		103		40-140	12		30	A
Dieldrin	97		111		40-140	13		30	A
4,4'-DDE	92		104		40-140	12		30	A
4,4'-DDD	91		104		40-140	13		30	A
4,4'-DDT	102		115		40-140	12		30	A
Endosulfan I	88		97		40-140	10		30	A
Endosulfan II	86		97		40-140	12		30	A
Endosulfan sulfate	91		100		40-140	9		30	A
Methoxychlor	114		128		40-140	12		30	A
cis-Chlordane	82		92		40-140	11		30	A
trans-Chlordane	81		91		40-140	12		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 06 Batch: WG986556-2 WG986556-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		83		30-150	B
Decachlorobiphenyl	98		110		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		100		30-150	A
Decachlorobiphenyl	111		126		30-150	A

METALS

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-06
Client ID: D-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil
Percent Solids: 88%

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 03/20/17 14:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	0.02	1	03/21/17 17:32	03/22/17 16:12	EPA 3015	1,6010C	AB
Barium, TCLP	0.55		mg/l	0.50	0.02	1	03/21/17 17:32	03/22/17 16:12	EPA 3015	1,6010C	AB
Cadmium, TCLP	0.04	J	mg/l	0.10	0.01	1	03/21/17 17:32	03/22/17 16:12	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.20	0.02	1	03/21/17 17:32	03/22/17 16:12	EPA 3015	1,6010C	AB
Lead, TCLP	0.17	J	mg/l	0.50	0.03	1	03/21/17 17:32	03/22/17 16:12	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	03/21/17 12:08	03/21/17 22:19	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.50	0.04	1	03/21/17 17:32	03/22/17 16:12	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.10	0.03	1	03/21/17 17:32	03/22/17 16:12	EPA 3015	1,6010C	AB



Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-06

Date Collected: 03/17/17 13:30

Client ID: D-COMP

Date Received: 03/17/17

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2800		mg/kg	8.8	2.4	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Antimony, Total	1.8	J	mg/kg	4.4	0.34	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Arsenic, Total	2.8		mg/kg	0.88	0.18	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Barium, Total	74		mg/kg	0.88	0.15	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Beryllium, Total	0.18	J	mg/kg	0.44	0.03	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Cadmium, Total	1.6		mg/kg	0.88	0.09	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Calcium, Total	26000		mg/kg	8.8	3.1	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Chromium, Total	8.0		mg/kg	0.88	0.09	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Cobalt, Total	2.7		mg/kg	1.8	0.15	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Copper, Total	21		mg/kg	0.88	0.23	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Iron, Total	9600		mg/kg	4.4	0.80	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Lead, Total	38		mg/kg	4.4	0.24	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Magnesium, Total	12000		mg/kg	8.8	1.4	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Manganese, Total	81		mg/kg	0.88	0.14	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Mercury, Total	0.19		mg/kg	0.07	0.02	1	03/21/17 06:25	03/21/17 12:53	EPA 7471B	1,7471B	BV
Nickel, Total	11		mg/kg	2.2	0.21	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Potassium, Total	390		mg/kg	220	13.	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.8	0.23	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.88	0.25	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Sodium, Total	440		mg/kg	180	2.8	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.8	0.28	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Vanadium, Total	15		mg/kg	0.88	0.18	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB
Zinc, Total	170		mg/kg	4.4	0.26	2	03/20/17 20:08	03/22/17 00:07	EPA 3050B	1,6010C	AB



Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06 Batch: WG986782-1										
Aluminum, Total	ND		mg/kg	4.0	1.1	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Antimony, Total	ND		mg/kg	2.0	0.15	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Arsenic, Total	ND		mg/kg	0.40	0.08	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Barium, Total	ND		mg/kg	0.40	0.07	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Beryllium, Total	ND		mg/kg	0.20	0.01	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.40	0.04	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Calcium, Total	ND		mg/kg	4.0	1.4	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Chromium, Total	ND		mg/kg	0.40	0.04	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Cobalt, Total	ND		mg/kg	0.80	0.07	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Copper, Total	ND		mg/kg	0.40	0.10	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Iron, Total	0.50	J	mg/kg	2.0	0.36	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Lead, Total	ND		mg/kg	2.0	0.11	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Magnesium, Total	ND		mg/kg	4.0	0.62	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Manganese, Total	ND		mg/kg	0.40	0.06	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Nickel, Total	ND		mg/kg	1.0	0.10	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Potassium, Total	ND		mg/kg	100	5.8	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Selenium, Total	ND		mg/kg	0.80	0.10	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Silver, Total	ND		mg/kg	0.40	0.11	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Sodium, Total	ND		mg/kg	80	1.3	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Thallium, Total	ND		mg/kg	0.80	0.13	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Vanadium, Total	ND		mg/kg	0.40	0.08	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB
Zinc, Total	ND		mg/kg	2.0	0.12	1	03/20/17 20:08	03/21/17 23:35	1,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06 Batch: WG986829-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	03/21/17 06:25	03/21/17 12:25	1,7471B	BV



Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 06 Batch: WG986960-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	03/21/17 12:08	03/21/17 21:59	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 03/20/17 14:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 06 Batch: WG987051-1										
Arsenic, TCLP	ND		mg/l	1.0	0.02	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Barium, TCLP	0.03	J	mg/l	0.50	0.02	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.10	0.01	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.20	0.02	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Lead, TCLP	ND		mg/l	0.50	0.03	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Selenium, TCLP	ND		mg/l	0.50	0.04	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB
Silver, TCLP	ND		mg/l	0.10	0.03	1	03/21/17 17:32	03/22/17 13:14	1,6010C	AB

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 03/20/17 14:59

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG986782-2 SRM Lot Number: D091-540								
Aluminum, Total	77		-		52-148	-		
Antimony, Total	146		-		1-200	-		
Arsenic, Total	103		-		80-121	-		
Barium, Total	96		-		84-117	-		
Beryllium, Total	99		-		83-117	-		
Cadmium, Total	96		-		83-117	-		
Calcium, Total	95		-		81-118	-		
Chromium, Total	98		-		80-119	-		
Cobalt, Total	97		-		84-115	-		
Copper, Total	92		-		82-117	-		
Iron, Total	100		-		47-154	-		
Lead, Total	96		-		82-118	-		
Magnesium, Total	87		-		77-123	-		
Manganese, Total	91		-		82-118	-		
Nickel, Total	93		-		83-117	-		
Potassium, Total	92		-		72-128	-		
Selenium, Total	90		-		79-121	-		
Silver, Total	96		-		75-124	-		
Sodium, Total	98		-		73-126	-		
Thallium, Total	85		-		80-121	-		
Vanadium, Total	96		-		78-122	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG986782-2 SRM Lot Number: D091-540					
Zinc, Total	98	-	82-118	-	
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG986829-2 SRM Lot Number: D091-540					
Mercury, Total	98	-	72-128	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 Batch: WG986960-2					
Mercury, TCLP	103	-	80-120	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 Batch: WG987051-2					
Arsenic, TCLP	100	-	75-125	-	20
Barium, TCLP	95	-	75-125	-	20
Cadmium, TCLP	98	-	75-125	-	20
Chromium, TCLP	90	-	75-125	-	20
Lead, TCLP	90	-	75-125	-	20
Selenium, TCLP	100	-	75-125	-	20
Silver, TCLP	94	-	75-125	-	20

INORGANICS & MISCELLANEOUS

Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-06
Client ID: D-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	03/21/17 02:00	1,1030	SB



Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-01
Client ID: D-1
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	03/18/17 19:03	121,2540G	RI



Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-02
Client ID: D-2
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	03/18/17 19:03	121,2540G	RI



Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-03
Client ID: D-3
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.6		%	0.100	NA	1	-	03/18/17 19:03	121,2540G	RI



Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-04
Client ID: D-4
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	03/18/17 19:03	121,2540G	RI



Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-05
Client ID: D-5
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3		%	0.100	NA	1	-	03/18/17 19:03	121,2540G	RI



Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708267-06
Client ID: D-COMP
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 03/17/17 13:30
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	03/18/17 19:03	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.18	1	03/20/17 13:00	03/20/17 15:24	1,9010C/9012B	JO
pH (H)	8.2		SU	-	NA	1	-	03/18/17 10:20	1,9045D	MR
Cyanide, Reactive	ND		mg/kg	10	10.	1	03/21/17 14:26	03/21/17 16:05	1,7.3	AW
Sulfide, Reactive	ND		mg/kg	10	10.	1	03/21/17 14:26	03/21/17 15:49	1,7.3	AW
Paint Filter Liquid	NEGATIVE		-	0	NA	1	-	03/20/17 18:05	1,9095B	AS



Project Name: KINGS PLAZA - AREA D

Lab Number: L1708267

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG986672-1										
Cyanide, Total	ND		mg/kg	0.90	0.15	1	03/20/17 13:00	03/20/17 15:17	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG986984-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	03/21/17 14:26	03/21/17 16:03	1,7.3	AW
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG986985-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	03/21/17 14:26	03/21/17 15:48	1,7.3	AW

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG986389-1								
pH	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG986672-2 WG986672-3								
Cyanide, Total	95		89		80-120	4		35
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG986984-2								
Cyanide, Reactive	74		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG986985-2								
Sulfide, Reactive	93		-		60-125	-		40

Lab Duplicate Analysis
Batch Quality Control**Project Name:** KINGS PLAZA - AREA D**Project Number:** 15026**Lab Number:** L1708267**Report Date:** 03/24/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG986482-1 QC Sample: L1708267-06 Client ID: D-COMP						
Solids, Total	88.2	89.4	%	1		20

Project Name: KINGS PLAZA - AREA D

Project Number: 15026

Lab Number: L1708267

Report Date: 03/24/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 20-MAR-17 07:23

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1708267-01A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH-TPH-CAT2(14),NJ-8260(14),TS(7)
L1708267-01X	Vial MeOH preserved split	A	N/A	2.1	Y	Absent	NJ-8260(14)
L1708267-01Y	Vial Water preserved split	A	N/A	2.1	Y	Absent	NJ-8260(14)
L1708267-01Z	Vial Water preserved split	A	N/A	2.1	Y	Absent	NJ-8260(14)
L1708267-02A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH(14),TS(7)
L1708267-03A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH-TPH-CAT2(14),TS(7)
L1708267-04A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH-TPH-CAT2(14),TS(7)
L1708267-05A	Glass 120ml/4oz unpreserved	A	N/A	2.1	Y	Absent	NJEPH-TPH-CAT2(14),TS(7)
L1708267-06A	Glass 250ml/8oz unpreserved	A	N/A	2.1	Y	Absent	TCLP-EXT-ZHE(14)
L1708267-06B	Glass 500ml/16oz unpreserved	A	N/A	2.1	Y	Absent	HOLD-CONTINGENCY(14),IGNIT-1030(14),REACTS(14),TCN-9010(14),NJ-8082(14),NJ-8270(14),TS(7),PH-9045(1),PAINTF(),NJ-8081(14),REACTCN(14)
L1708267-06C	Glass 60ml unpreserved split	A	N/A	2.1	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1708267-06U	Vial unpreserved Extracts	A	N/A	2.1	Y	Absent	TCLP-VOA(14)
L1708267-06V	Vial unpreserved Extracts	A	N/A	2.1	Y	Absent	TCLP-VOA(14)
L1708267-06X	Plastic 120ml HNO3 preserved Ext	A	<2	2.1	Y	Absent	CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),TL-TI(180),ZN-TI(180),V-TI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1708267-06X9	Tumble Vessel	A	N/A	2.1	Y	Absent	-

*Values in parentheses indicate holding time in days



Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers



Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: KINGS PLAZA - AREA D
Project Number: 15026

Lab Number: L1708267
Report Date: 03/24/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

Published Date: 1/16/2017 11:00:05 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** NPW and SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**EPA 9012B:** NPW: Total Cyanide**EPA 9050A:** NPW: Specific Conductance**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****SM 2540D:** TSS**EPA 3005A** NPW**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.****Mansfield Facility:****Drinking Water****EPA 200.7:** Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

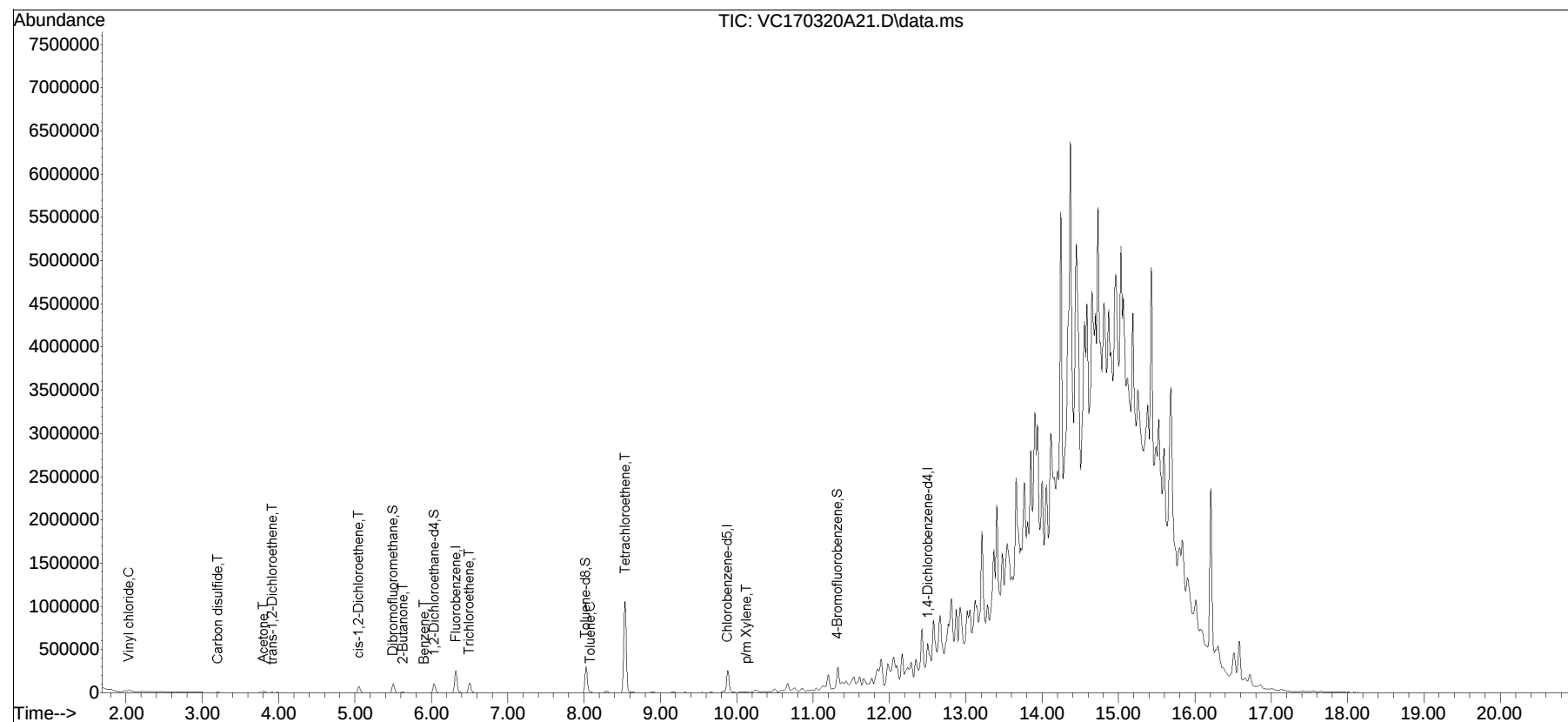
 NEW JERSEY CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 3/18/17		ALPHA Job # L1708267			
		Project Information Project Name: <u>KINGS PLAZA - AREA D</u> Project Location: <u>BROOKLYN NY</u> Project # <u>15026</u> (Use Project name as Project #) ☐		Deliverables ☐ NJ Full / Reduced ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☒ Other <u>RESULTS ONLY</u>		Billing Information ☒ Same as Client Info PO # <u>15026-DA</u>					
Client Information Client: <u>AST ENVIRONMENTAL SVC</u> Address: <u>PO BOX 128</u> <u>SPRINGVILLE NY 08871</u> Phone: <u>732 613 1660</u> Fax: <u>732 613 1536</u> Email: <u>DAVID@ASTENV.COM</u>		Project Manager: <u>DAVID ANAGNOS</u> ALPHAQuote #: _____ Turn-Around Time Standard ☒ Due Date: _____ Rush (only if pre approved) ☐ # of Days: _____		Regulatory Requirement ☒ SRS Residential/Non Residential ☐ SRS Impact to Groundwater ☐ NJ Ground Water Quality Standards ☐ NJ IGW SPLP Leachate Criteria ☐ Other _____		Site Information Is this site impacted by Petroleum? Yes ☐ Petroleum Product: _____					
For EPH, selection is REQUIRED: ☐ Category 1 ☐ Category 2		For VOC, selection is REQUIRED: ☐ 1,4-Dioxane ☐ 8011		Other project specific requirements/comments: <u>CONTINGENCY INCLUDES: TAP SOME VO</u> <u>TAP PEST/HEAD</u> <u>SIEVE ANALYSIS</u>		ANALYSIS HD3 TOTAL VO TCE TAL - No VO PCRA CHAL TCE METEST 3 TCE VOLATILES PCRA TAL CONTINGENCY Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles			
ALPHA Lab ID (Lab Use Only) _____		Sample ID _____		Collection Date _____ Time _____		Sample Matrix _____			Sampler's Initials _____		Sample Specific Comments _____
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type _____ Preservative _____		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)			
Form No: 01-14 HC (rev. 30-Sept-2013)		Relinquished By: <u>DAVID ANAGNOS</u> <u>3/17/17 19:50</u>		Date/Time: <u>03-17-17 19:50</u>		Received By: <u>Ed. Janson AAL</u> <u>3-17-17 2130</u>		Date/Time: <u>3/17/17 18:00</u>		<u>3-17-17 2130</u> <u>3/18/17 01:30</u>	

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\Charlie\2017\170320A\
Data File : VC170320A21.D
Acq On : 20 Mar 2017 20:46
Operator : CHARLIE:MV
Sample : l1708267-01,31,5.0,5,,y
Misc : WG986909,ICAL13495
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 21 07:11:46 2017
Quant Method : I:\VOLATILES\Charlie\2017\170320A\C_170316_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Mar 17 17:18:55 2017
Response via : Initial Calibration

Sub List : 8260-NJTCL - Standard NJ Sublist0320A\VC170320A02.D•





ANALYTICAL REPORT

Lab Number:	L1708268
Client:	AWT Environmental Services, Inc. P.O. Box 128 Sayreville, NJ 08871
ATTN:	David Anagnos
Phone:	(732) 613-1660
Project Name:	KINGS PLAZA - AREA E
Project Number:	15026
Report Date:	03/24/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: KINGS PLAZA - AREA E
Project Number: 15026

Lab Number: L1708268
Report Date: 03/24/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1708268-01	E-COMP	SOIL	BROOKLYN NY	03/17/17 13:46	03/17/17

Project Name: KINGS PLAZA - AREA E
Project Number: 15026

Lab Number: L1708268
Report Date: 03/24/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: KINGS PLAZA - AREA E
Project Number: 15026

Lab Number: L1708268
Report Date: 03/24/17

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

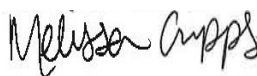
L1708268-01: The sample was received in an inappropriate container for the Volatile Organics analysis. An aliquot was taken from an unpreserved container and preserved appropriately.

TCLP Volatiles

L1708268-01 and WG987809-5: The ambient temperature of the area in which the TCLP/SPLP extraction was performed was outside the required 21-25 degrees C temperature range.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Melissa Cripps

Title: Technical Director/Representative

Date: 03/24/17

ORGANICS

VOLATILES

Project Name: KINGS PLAZA - AREA E
Project Number: 15026

Lab Number: L1708268
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708268-01
Client ID: E-COMP
Sample Location: BROOKLYN NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/23/17 13:26
Analyst: KD
Percent Solids: 88%
TCLP/SPLP Ext. Date: 03/22/17 14:13

Date Collected: 03/17/17 13:46
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	1.6	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	4.2	J	ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
dibromofluoromethane	101		70-130

Project Name: KINGS PLAZA - AREA E
Project Number: 15026

Lab Number: L1708268
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708268-01 D
Client ID: E-COMP
Sample Location: BROOKLYN NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/21/17 16:38
Analyst: TE
Percent Solids: 88%

Date Collected: 03/17/17 13:46
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.64	0.085	4
1,4-Dioxane	ND		mg/kg	8.6	3.1	4
1,2-Dibromoethane	ND		mg/kg	0.64	0.043	4
Methylene chloride	ND		mg/kg	1.1	0.35	4
1,1-Dichloroethane	ND		mg/kg	0.32	0.058	4
Chloroform	ND		mg/kg	0.32	0.079	4
Carbon tetrachloride	ND		mg/kg	0.21	0.074	4
1,2-Dichloropropane	ND		mg/kg	0.75	0.049	4
Dibromochloromethane	ND		mg/kg	0.21	0.038	4
1,1,2-Trichloroethane	ND		mg/kg	0.32	0.067	4
Tetrachloroethene	2.2		mg/kg	0.21	0.065	4
Chlorobenzene	ND		mg/kg	0.21	0.075	4
Trichlorofluoromethane	ND		mg/kg	1.1	0.089	4
1,2-Dichloroethane	ND		mg/kg	0.21	0.053	4
1,1,1-Trichloroethane	ND		mg/kg	0.21	0.075	4
Bromodichloromethane	ND		mg/kg	0.21	0.066	4
trans-1,3-Dichloropropene	ND		mg/kg	0.21	0.045	4
cis-1,3-Dichloropropene	ND		mg/kg	0.21	0.050	4
1,3-Dichloropropene, Total	ND		mg/kg	0.21	0.045	4
Bromoform	ND		mg/kg	0.86	0.051	4
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.21	0.064	4
Benzene	ND		mg/kg	0.21	0.041	4
Toluene	ND		mg/kg	0.32	0.042	4
Ethylbenzene	0.45		mg/kg	0.21	0.036	4
Chloromethane	ND		mg/kg	1.1	0.094	4
Bromomethane	ND		mg/kg	0.43	0.072	4
Vinyl chloride	ND		mg/kg	0.43	0.068	4
Chloroethane	ND		mg/kg	0.43	0.068	4
1,1-Dichloroethene	ND		mg/kg	0.21	0.080	4
trans-1,2-Dichloroethene	ND		mg/kg	0.32	0.052	4

Project Name: KINGS PLAZA - AREA E

Lab Number: L1708268

Project Number: 15026

Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708268-01 D

Date Collected: 03/17/17 13:46

Client ID: E-COMP

Date Received: 03/17/17

Sample Location: BROOKLYN NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.10	J	mg/kg	0.21	0.065	4
1,2-Dichlorobenzene	ND		mg/kg	1.1	0.039	4
1,3-Dichlorobenzene	ND		mg/kg	1.1	0.047	4
1,4-Dichlorobenzene	ND		mg/kg	1.1	0.039	4
Methyl tert butyl ether	ND		mg/kg	0.43	0.033	4
p/m-Xylene	1.3		mg/kg	0.43	0.075	4
o-Xylene	0.45		mg/kg	0.43	0.072	4
Xylene (Total)	1.8		mg/kg	0.43	0.072	4
cis-1,2-Dichloroethene	ND		mg/kg	0.21	0.073	4
1,2-Dichloroethene (total)	ND		mg/kg	0.21	0.052	4
Styrene	ND		mg/kg	0.43	0.086	4
Dichlorodifluoromethane	ND		mg/kg	2.1	0.11	4
Acetone	ND		mg/kg	7.7	0.49	4
Carbon disulfide	ND		mg/kg	2.1	0.24	4
2-Butanone	ND		mg/kg	2.1	0.15	4
4-Methyl-2-pentanone	ND		mg/kg	2.1	0.052	4
2-Hexanone	ND		mg/kg	2.1	0.14	4
Bromochloromethane	ND		mg/kg	1.1	0.076	4
Isopropylbenzene	0.48		mg/kg	0.21	0.042	4
1,2,3-Trichlorobenzene	ND		mg/kg	1.1	0.054	4
1,2,4-Trichlorobenzene	ND		mg/kg	1.1	0.046	4
Methyl Acetate	ND		mg/kg	0.86	0.099	4
Cyclohexane	ND		mg/kg	4.3	0.093	4
Methyl cyclohexane	1.1		mg/kg	0.86	0.051	4
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	4.3	0.11	4

Project Name: KINGS PLAZA - AREA E

Lab Number: L1708268

Project Number: 15026

Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708268-01 D

Date Collected: 03/17/17 13:46

Client ID: E-COMP

Date Received: 03/17/17

Sample Location: BROOKLYN NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	322	J	mg/kg	4
Unknown Naphthalene	18.2	J	mg/kg	4
Unknown Benzene	28.9	J	mg/kg	4
Unknown	18.7	J	mg/kg	4
Unknown Benzene	19.8	J	mg/kg	4
Unknown Naphthalene	18.5	J	mg/kg	4
Unknown	17.9	J	mg/kg	4
Unknown Benzene	19.2	J	mg/kg	4
Unknown Naphthalene	24.2	J	mg/kg	4
Unknown	18.6	J	mg/kg	4
Unknown Aromatic	19.2	J	mg/kg	4
Unknown Aromatic	32.2	J	mg/kg	4
Unknown Benzene	16.9	J	mg/kg	4
Unknown Aromatic	31.9	J	mg/kg	4
Unknown	20.3	J	mg/kg	4
Unknown Aromatic	17.6	J	mg/kg	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	97		70-130

INORGANICS & MISCELLANEOUS

Project Name: KINGS PLAZA - AREA E
Project Number: 15026

Lab Number: L1708268
Report Date: 03/24/17

SAMPLE RESULTS

Lab ID: L1708268-01
Client ID: E-COMP
Sample Location: BROOKLYN NY
Matrix: Soil

Date Collected: 03/17/17 13:46
Date Received: 03/17/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	03/18/17 19:03	121,2540G	RI



QUALITY CONTROL SUMMARY

Project Name: KINGS PLAZA - AREA E

Lab Number: L1708268

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/21/17 09:14
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG987431-5					
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.15	0.020
1,4-Dioxane	ND		mg/kg	2.0	0.72
1,2-Dibromoethane	ND		mg/kg	0.15	0.010
Methylene chloride	0.091	J	mg/kg	0.25	0.082
1,1-Dichloroethane	ND		mg/kg	0.075	0.014
Chloroform	ND		mg/kg	0.075	0.018
Carbon tetrachloride	ND		mg/kg	0.050	0.017
1,2-Dichloropropane	ND		mg/kg	0.18	0.011
Dibromochloromethane	ND		mg/kg	0.050	0.0088
1,1,2-Trichloroethane	ND		mg/kg	0.075	0.016
2-Chloroethylvinyl ether	ND		mg/kg	1.0	0.031
Tetrachloroethene	ND		mg/kg	0.050	0.015
Chlorobenzene	ND		mg/kg	0.050	0.017
Trichlorofluoromethane	ND		mg/kg	0.25	0.021
1,2-Dichloroethane	ND		mg/kg	0.050	0.012
1,1,1-Trichloroethane	ND		mg/kg	0.050	0.018
Bromodichloromethane	ND		mg/kg	0.050	0.015
trans-1,3-Dichloropropene	ND		mg/kg	0.050	0.010
cis-1,3-Dichloropropene	ND		mg/kg	0.050	0.012
1,3-Dichloropropene, Total	ND		mg/kg	0.050	0.010
1,1-Dichloropropene	ND		mg/kg	0.25	0.016
Bromoform	ND		mg/kg	0.20	0.012
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.050	0.015
Benzene	ND		mg/kg	0.050	0.0096
Toluene	ND		mg/kg	0.075	0.0098
Ethylbenzene	ND		mg/kg	0.050	0.0085
Chloromethane	ND		mg/kg	0.25	0.022
Bromomethane	0.034	J	mg/kg	0.10	0.017
Vinyl chloride	ND		mg/kg	0.10	0.016

Project Name: KINGS PLAZA - AREA E

Lab Number: L1708268

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/21/17 09:14
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG987431-5					
Chloroethane	ND		mg/kg	0.10	0.016
1,1-Dichloroethene	ND		mg/kg	0.050	0.019
trans-1,2-Dichloroethene	ND		mg/kg	0.075	0.012
Trichloroethene	ND		mg/kg	0.050	0.015
1,2-Dichlorobenzene	ND		mg/kg	0.25	0.0091
1,3-Dichlorobenzene	ND		mg/kg	0.25	0.011
1,4-Dichlorobenzene	ND		mg/kg	0.25	0.0091
Methyl tert butyl ether	ND		mg/kg	0.10	0.0076
p/m-Xylene	ND		mg/kg	0.10	0.018
o-Xylene	ND		mg/kg	0.10	0.017
Xylene (Total)	ND		mg/kg	0.10	0.017
cis-1,2-Dichloroethene	ND		mg/kg	0.050	0.017
1,2-Dichloroethene (total)	ND		mg/kg	0.050	0.012
Dibromomethane	ND		mg/kg	0.50	0.012
1,4-Dichlorobutane	ND		mg/kg	0.50	0.0082
1,2,3-Trichloropropane	ND		mg/kg	0.50	0.0088
Styrene	ND		mg/kg	0.10	0.020
Dichlorodifluoromethane	ND		mg/kg	0.50	0.025
Acetone	0.13	J	mg/kg	1.8	0.11
Carbon disulfide	ND		mg/kg	0.50	0.055
2-Butanone	ND		mg/kg	0.50	0.034
Vinyl acetate	ND		mg/kg	0.50	0.0076
4-Methyl-2-pentanone	ND		mg/kg	0.50	0.012
2-Hexanone	ND		mg/kg	0.50	0.033
Ethyl methacrylate	ND		mg/kg	0.50	0.0084
Acrolein	ND		mg/kg	1.2	0.40
Acrylonitrile	ND		mg/kg	0.20	0.026
Bromochloromethane	ND		mg/kg	0.25	0.018
Tetrahydrofuran	ND		mg/kg	1.0	0.050

Project Name: KINGS PLAZA - AREA E

Lab Number: L1708268

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/21/17 09:14
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG987431-5					
2,2-Dichloropropane	ND		mg/kg	0.25	0.022
1,3-Dichloropropane	ND		mg/kg	0.25	0.0092
1,1,1,2-Tetrachloroethane	ND		mg/kg	0.050	0.016
Bromobenzene	ND		mg/kg	0.25	0.011
n-Butylbenzene	ND		mg/kg	0.050	0.011
sec-Butylbenzene	ND		mg/kg	0.050	0.011
tert-Butylbenzene	ND		mg/kg	0.25	0.012
o-Chlorotoluene	ND		mg/kg	0.25	0.011
p-Chlorotoluene	ND		mg/kg	0.25	0.0092
Hexachlorobutadiene	ND		mg/kg	0.25	0.017
Isopropylbenzene	ND		mg/kg	0.050	0.0097
p-Isopropyltoluene	ND		mg/kg	0.050	0.010
Naphthalene	ND		mg/kg	0.25	0.0069
n-Propylbenzene	ND		mg/kg	0.050	0.011
1,2,3-Trichlorobenzene	ND		mg/kg	0.25	0.012
1,2,4-Trichlorobenzene	ND		mg/kg	0.25	0.011
1,3,5-Trimethylbenzene	ND		mg/kg	0.25	0.0080
1,2,4-Trimethylbenzene	ND		mg/kg	0.25	0.0093
trans-1,4-Dichloro-2-butene	ND		mg/kg	0.25	0.020
Ethyl ether	ND		mg/kg	0.25	0.013
Methyl Acetate	ND		mg/kg	0.20	0.023
Ethyl Acetate	ND		mg/kg	1.0	0.10
Isopropyl Ether	ND		mg/kg	0.20	0.014
Cyclohexane	ND		mg/kg	1.0	0.022
tert-Butyl Alcohol	ND		mg/kg	5.0	0.15
Ethyl-Tert-Butyl-Ether	ND		mg/kg	0.20	0.0089
Tertiary-Amyl Methyl Ether	ND		mg/kg	0.20	0.012
Methyl cyclohexane	ND		mg/kg	0.20	0.012
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	1.0	0.026

Project Name: KINGS PLAZA - AREA E

Lab Number: L1708268

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/21/17 09:14
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG987431-5					
1,2,4,5-Tetramethylbenzene	ND		mg/kg	0.20	0.0078
1,4-Diethylbenzene	ND		mg/kg	0.20	0.20
4-Ethyltoluene	ND		mg/kg	0.20	0.012

Tentatively Identified Compounds

Total TIC Compounds	0.104	J	mg/kg
Unknown	0.104	J	mg/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Project Name: KINGS PLAZA - AREA E

Lab Number: L1708268

Project Number: 15026

Report Date: 03/24/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 03/23/17 07:35

Analyst: MM

TCLP/SPLP Extraction Date: 03/22/17 14:13

Extraction Date: 03/22/17 14:13

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG987809-5					
Chloroform	ND		ug/l	7.5	1.6
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
dibromofluoromethane	104		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA E

Project Number: 15026

Lab Number: L1708268

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG987431-3 WG987431-4								
1,2-Dibromo-3-chloropropane	74		72		40-160	3		30
1,4-Dioxane	83		83		40-160	0		30
1,2-Dibromoethane	87		88		70-130	1		30
Methylene chloride	103		105		70-130	2		30
1,1-Dichloroethane	103		106		70-130	3		30
Chloroform	98		101		70-130	3		30
Carbon tetrachloride	106		111		70-130	5		30
1,2-Dichloropropane	98		102		70-130	4		30
Dibromochloromethane	84		86		70-130	2		30
1,1,2-Trichloroethane	90		93		70-130	3		30
Tetrachloroethene	105		107		70-130	2		30
Chlorobenzene	97		101		70-130	4		30
Trichlorofluoromethane	124		128		40-160	3		30
1,2-Dichloroethane	93		96		70-130	3		30
1,1,1-Trichloroethane	106		109		70-130	3		30
Bromodichloromethane	93		96		70-130	3		30
trans-1,3-Dichloropropene	90		94		70-130	4		30
cis-1,3-Dichloropropene	97		98		40-160	1		30
1,1-Dichloropropene	112		118		70-130	5		30
Bromoform	78		80		40-160	3		30
1,1,2,2-Tetrachloroethane	86		86		40-160	0		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA E

Project Number: 15026

Lab Number: L1708268

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG987431-3 WG987431-4								
Benzene	101		104		70-130	3		30
Toluene	100		104		70-130	4		30
Ethylbenzene	101		106		70-130	5		30
Chloromethane	96		97		40-160	1		30
Bromomethane	102		107		40-160	5		30
Vinyl chloride	113		121		70-130	7		30
Chloroethane	114		118		40-160	3		30
1,1-Dichloroethene	97		103		70-130	6		30
trans-1,2-Dichloroethene	102		106		70-130	4		30
Trichloroethene	102		106		70-130	4		30
1,2-Dichlorobenzene	93		94		70-130	1		30
1,3-Dichlorobenzene	97		100		70-130	3		30
1,4-Dichlorobenzene	94		98		70-130	4		30
Methyl tert butyl ether	88		88		70-130	0		30
p/m-Xylene	101		105		70-130	4		30
o-Xylene	99		102		70-130	3		30
cis-1,2-Dichloroethene	99		101		70-130	2		30
Dibromomethane	90		92		70-130	2		30
1,4-Dichlorobutane	88		88		70-130	0		30
1,2,3-Trichloropropane	84		85		70-130	1		30
Styrene	98		101		40-160	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA E

Project Number: 15026

Lab Number: L1708268

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG987431-3 WG987431-4								
Dichlorodifluoromethane	118		126		40-160	7		30
Acetone	92		84		40-160	9		30
Carbon disulfide	72		74		40-160	3		30
2-Butanone	82		82		40-160	0		30
Vinyl acetate	80		80		70-130	0		30
4-Methyl-2-pentanone	78		77		40-160	1		30
2-Hexanone	66		68		40-160	3		30
Ethyl methacrylate	83		87		70-130	5		30
Acrolein	80		80		40-160	0		30
Acrylonitrile	81		80		70-130	1		30
Bromochloromethane	95		96		70-130	1		30
Tetrahydrofuran	77		74		70-130	4		30
2,2-Dichloropropane	103		109		40-160	6		30
1,3-Dichloropropane	92		94		70-130	2		30
1,1,1,2-Tetrachloroethane	91		95		70-130	4		30
Bromobenzene	94		95		70-130	1		30
n-Butylbenzene	108		113		70-130	5		30
sec-Butylbenzene	105		109		70-130	4		30
tert-Butylbenzene	100		105		70-130	5		30
o-Chlorotoluene	102		103		70-130	1		30
p-Chlorotoluene	98		103		70-130	5		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KINGS PLAZA - AREA E

Project Number: 15026

Lab Number: L1708268

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG987431-3 WG987431-4								
Hexachlorobutadiene	102		109		70-130	7		30
Isopropylbenzene	103		105		70-130	2		30
p-Isopropyltoluene	103		106		70-130	3		30
Naphthalene	77		80		40-160	4		30
n-Propylbenzene	105		110		70-130	5		30
1,2,3-Trichlorobenzene	86		91		70-130	6		30
1,2,4-Trichlorobenzene	92		96		70-130	4		30
1,3,5-Trimethylbenzene	102		105		70-130	3		30
1,2,4-Trimethylbenzene	100		102		70-130	2		30
trans-1,4-Dichloro-2-butene	74		77		70-130	4		30
Ethyl ether	109		107		70-130	2		30
Methyl Acetate	79		79		70-130	0		30
Ethyl Acetate	80		78		70-130	3		30
Isopropyl Ether	92		93		70-130	1		30
Cyclohexane	118		122		70-130	3		30
tert-Butyl Alcohol	72		69		40-160	4		30
Ethyl-Tert-Butyl-Ether	94		94		70-130	0		30
Tertiary-Amyl Methyl Ether	92		91		70-130	1		30
Methyl cyclohexane	122		126		70-130	3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	102		108		70-130	6		30
1,2,4,5-Tetramethylbenzene	95		98		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA E

Project Number: 15026

Lab Number: L1708268

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG987431-3 WG987431-4								
1,4-Diethylbenzene	102		106		70-130	4		30
4-Ethyltoluene	104		105		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		92		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	102		99		70-130
Dibromofluoromethane	99		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KINGS PLAZA - AREA E

Project Number: 15026

Lab Number: L1708268

Report Date: 03/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG987809-3 WG987809-4								
Chloroform	110		120		70-130	9		20
Carbon tetrachloride	110		100		63-132	10		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	110		100		75-130	10		25
1,2-Dichloroethane	120		120		70-130	0		20
Benzene	110		110		70-130	0		25
Vinyl chloride	120		120		55-140	0		20
1,1-Dichloroethene	100		100		61-145	0		25
Trichloroethene	110		110		70-130	0		25
1,4-Dichlorobenzene	100		100		70-130	0		20
2-Butanone	110		120		63-138	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	95		93		70-130
dibromofluoromethane	102		98		70-130

Project Name: KINGS PLAZA - AREA E**Lab Number:** L1708268**Project Number:** 15026**Report Date:** 03/24/17**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: 20-MAR-17 07:23**Cooler Information Custody Seal****Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1708268-01A	Glass 250ml/8oz unpreserved	A	N/A	2.1	Y	Absent	TCLP-EXT-ZHE(14),NJ-8260(14),TS(7)
L1708268-01U	Vial unpreserved Extracts	A	N/A	2.1	Y	Absent	TCLP-VOA(14)
L1708268-01V	Vial unpreserved Extracts	A	N/A	2.1	Y	Absent	TCLP-VOA(14)
L1708268-01X	Vial MeOH preserved split	A	N/A	2.1	Y	Absent	NJ-8260(14)
L1708268-01Y	Vial Water preserved split	A	N/A	2.1	Y	Absent	NJ-8260(14)
L1708268-01Z	Vial Water preserved split	A	N/A	2.1	Y	Absent	NJ-8260(14)

*Values in parentheses indicate holding time in days

Project Name: KINGS PLAZA - AREA E
Project Number: 15026

Lab Number: L1708268
Report Date: 03/24/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report - QC Section w/'J' Qual



Project Name: KINGS PLAZA - AREA E
Project Number: 15026

Lab Number: L1708268
Report Date: 03/24/17

Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Project Name: KINGS PLAZA - AREA E
Project Number: 15026

Lab Number: L1708268
Report Date: 03/24/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

Published Date: 1/16/2017 11:00:05 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** NPW and SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**EPA 9012B:** NPW: Total Cyanide**EPA 9050A:** NPW: Specific Conductance**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****SM 2540D:** TSS**EPA 3005A** NPW**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

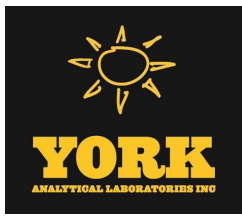
3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.****Mansfield Facility:****Drinking Water****EPA 200.7:** Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive

New Haven CT, 06511

Attention: Daria Collins

Report Date: 04/06/2016

Client Project ID: 140080114

York Project (SDG) No.: 16C1184

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 04/06/2016
Client Project ID: 140080114
York Project (SDG) No.: 16C1184

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Daria Collins

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 March 30, 2016 and listed below. The project was identified as your project: **140080114**.

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 Notes 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 attachment to 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>
16C1184-01	WCLB-1	Soil	03/29/2016	03/30/2016
16C1184-02	WCLB-2	Soil	03/29/2016	03/30/2016
16C1184-03	WCLB-3	Soil	03/29/2016	03/30/2016
16C1184-04	WCLB-4	Soil	03/29/2016	03/30/2016
16C1184-05	WCLB-5	Soil	03/29/2016	03/30/2016
16C1184-06	Site Wide Composite	Soil	03/29/2016	03/30/2016
16C1184-07	DUP-1	Soil	03/29/2016	03/30/2016
16C1184-08	Trip Blank	Water	03/29/2016	03/30/2016

General Notes for York Project (SDG) No.: 16C1184

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 samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 04/06/2016





Sample Information

Client Sample ID: WCLB-1

York Sample ID: 16C1184-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:20 pm

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

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	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP	04/02/2016 00:44	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2016 00:44	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2016 00:44	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP	04/02/2016 00:44	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2016 00:44	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2016 00:44	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2016 00:44	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 NELAC-NY10854,NJDEP	04/02/2016 00:44	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 NELAC-NY10854,NJDEP	04/02/2016 00:44	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 NELAC-NY10854,NJDEP	04/02/2016 00:44	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP	04/02/2016 00:44	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP	04/02/2016 00:44	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP	04/02/2016 00:44	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2016 00:44	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2016 00:44	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP	04/02/2016 00:44	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP	04/02/2016 00:44	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2016 00:44	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/02/2016 00:44	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	59	120	1	EPA 8260C Certifications:	04/01/2016 17:09 NELAC-NY10854,NJDEP	04/02/2016 00:44	SS
78-93-3	2-Butanone	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP	04/02/2016 00:44	SS
591-78-6	2-Hexanone	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP	04/02/2016 00:44	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications:	04/01/2016 17:09 CTDOH,NELAC-NY10854,NJDEP	04/02/2016 00:44	SS



Sample Information

Client Sample ID: WCLB-1

York Sample ID: 16C1184-01

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 10:20 pm

Date Received
03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	16		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
107-02-8	Acrolein	ND		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
71-43-2	Benzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
75-25-2	Bromoform	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
74-83-9	Bromomethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
75-00-3	Chloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
67-66-3	Chloroform	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
74-87-3	Chloromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
110-82-7	Cyclohexane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
74-95-3	Dibromomethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
79-20-9	Methyl acetate	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS



Sample Information

Client Sample ID: WCLB-1

York Sample ID: 16C1184-01

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 10:20 pm

Date Received
03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

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	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
75-09-2	Methylene chloride	ND		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
95-47-6	o-Xylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	04/01/2016 17:09	04/02/2016 00:44	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	04/01/2016 17:09	04/02/2016 00:44	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
100-42-5	Styrene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
75-65-0	tert-Butyl alcohol (TBA)	7.5	J	ug/kg dry	3.0	12	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
127-18-4	Tetrachloroethylene	3.0	CCV-E, J	ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
108-88-3	Toluene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 00:44	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.0	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.9	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 00:44	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %	77-125								
2037-26-5	Surrogate: Toluene-d8	89.4 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	100 %	76-130								



Sample Information

Client Sample ID: WCLB-1

York Sample ID: 16C1184-01

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 10:20 pm

Date Received

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 07:08	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	91.5	183	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 07:08	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/03/2016 07:08	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 07:08	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/03/2016 07:08	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/03/2016 07:08	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	91.5	183	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 07:08	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 07:08	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	91.5	183	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 07:08	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	91.5	183	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 07:08	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR



Sample Information

Client Sample ID: WCLB-1

York Sample ID: 16C1184-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:20 pm

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
99-09-2	3-Nitroaniline	ND		ug/kg dry	91.5	183	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	91.5	183	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP	04/03/2016 07:08	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	91.5	183	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	91.5	183	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
83-32-9	Acenaphthene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
98-86-2	Acetophenone	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 07:08	SR
62-53-3	Aniline	ND		ug/kg dry	183	367	2	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
120-12-7	Anthracene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
1912-24-9	Atrazine	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 07:08	SR
100-52-7	Benzaldehyde	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 07:08	SR
92-87-5	Benzidine	ND		ug/kg dry	183	367	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854	04/03/2016 07:08	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
65-85-0	Benzoic acid	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 07:08	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR



Sample Information

Client Sample ID: WCLB-1

York Sample ID: 16C1184-01

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 10:20 pm

Date Received
03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
117-81-7	Bis(2-ethylhexyl)phthalate	763		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
105-60-2	Caprolactam	ND		ug/kg dry	91.5	183	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 07:08	SR
86-74-8	Carbazole	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
218-01-9	Chrysene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 07:08	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
206-44-0	Fluoranthene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
86-73-7	Fluorene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
78-59-1	Isophorone	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
91-20-3	Naphthalene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 07:08	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 07:08	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 07:08	SR



Sample Information

Client Sample ID: WCLB-1

York Sample ID: 16C1184-01

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 10:20 pm

Date Received

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP	04/03/2016 07:08	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
85-01-8	Phenanthrene	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
108-95-2	Phenol	ND		ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR
129-00-0	Pyrene	52.0	J	ug/kg dry	45.9	91.5	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 07:08	SR

Surrogate Recoveries		Result	Acceptance Range
367-12-4	Surrogate: 2-Fluorophenol	43.4 %	20-108
4165-62-2	Surrogate: Phenol-d5	45.6 %	23-114
4165-60-0	Surrogate: Nitrobenzene-d5	39.0 %	22-108
321-60-8	Surrogate: 2-Fluorobiphenyl	53.0 %	21-113
118-79-6	Surrogate: 2,4,6-Tribromophenol	30.1 %	19-110
1718-51-0	Surrogate: Terphenyl-d14	58.5 %	24-116

Pesticides, NJDEP/TCL/Part 375 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
72-54-8	4,4'-DDD	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications:	03/30/2016 14:07 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 19:55	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications:	03/30/2016 14:07 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 19:55	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications:	03/30/2016 14:07 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 19:55	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications:	03/30/2016 14:07 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 19:55	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications:	03/30/2016 14:07 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 19:55	AMC
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications:	03/30/2016 14:07 NELAC-NY10854,NJDEP	03/31/2016 19:55	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications:	03/30/2016 14:07 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 19:55	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	72.4	72.4	5	EPA 8081B Certifications:	03/30/2016 14:07 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 19:55	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications:	03/30/2016 14:07 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 19:55	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications:	03/30/2016 14:07 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 19:55	AMC



Sample Information

Client Sample ID: WCLB-1

York Sample ID: 16C1184-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:20 pm

03/30/2016

Pesticides, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
959-98-8	Endosulfan I	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 19:55	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 19:55	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 19:55	AMC
72-20-8	Endrin	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 19:55	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 19:55	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 19:55	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 19:55	AMC
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 19:55	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 19:55	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 19:55	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 19:55	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	181	181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 19:55	AMC
Surrogate Recoveries		Result		Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	67.0 %		30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	52.9 %		30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0183	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 17:30	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0183	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 17:30	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0183	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 17:30	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0183	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 17:30	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0183	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 17:30	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0183	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 17:30	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0183	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 17:30	AMC



Sample Information

Client Sample ID: WCLB-1

York Sample ID: 16C1184-01

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 10:20 pm

Date Received

03/30/2016

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0183	0.0183	1	EPA 8082A Certifications:	03/30/2016 14:07	03/31/2016 17:30	AMC
Surrogate Recoveries		Result		Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	75.1 %		30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	71.0 %		30-140							

Herbicides, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	22.0	22.0	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 08:58	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	22.0	22.0	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 08:58	AMC
94-75-7	2,4-D	ND		ug/kg dry	22.0	22.0	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 08:58	AMC
Surrogate Recoveries		Result		Acceptance Range							
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	79.2 %		30-150							

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	3760		mg/kg dry	3.73	11.0	1	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	03/31/2016 13:29	04/01/2016 11:30	AMC
Surrogate Recoveries		Result		Acceptance Range							
638-68-6	Surrogate: Triacontane	66.2 %		30-150							

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-GRO	ND		mg/kg dry	45.8	91.7	100	EPA 8015D Certifications: NELAC-NY10854,NJDEP	04/04/2016 10:13	04/04/2016 16:02	OW
Surrogate Recoveries		Result		Acceptance Range							
460-00-4	Surrogate: p-Bromofluorobenzene	89.6 %		70-130							

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst



Sample Information

Client Sample ID: WCLB-1

York Sample ID: 16C1184-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:20 pm

03/30/2016

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	3860		mg/kg dry	5.49	5.49	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7440-36-0	Antimony	0.647		mg/kg dry	0.549	0.549	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7440-38-2	Arsenic	2.76		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7440-39-3	Barium	363		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7440-41-7	Beryllium	0.500		mg/kg dry	0.110	0.110	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7440-43-9	Cadmium	20.9		mg/kg dry	0.329	0.329	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7440-70-2	Calcium	6310		mg/kg dry	0.549	5.49	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7440-47-3	Chromium	11.9		mg/kg dry	0.549	0.549	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7440-48-4	Cobalt	4.81		mg/kg dry	0.549	0.549	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7440-50-8	Copper	27.9		mg/kg dry	0.549	0.549	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7439-89-6	Iron	9570		mg/kg dry	2.20	2.20	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7439-92-1	Lead	82.3		mg/kg dry	0.329	0.329	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7439-95-4	Magnesium	1540		mg/kg dry	5.49	5.49	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7439-96-5	Manganese	101		mg/kg dry	0.549	0.549	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7440-02-0	Nickel	16.5		mg/kg dry	0.549	0.549	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7440-09-7	Potassium	542		mg/kg dry	5.49	5.49	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7440-22-4	Silver	ND		mg/kg dry	0.549	0.549	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7440-23-5	Sodium	760		mg/kg dry	11.0	11.0	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:30	ALD
7440-62-2	Vanadium	14.2		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:30	ALD



Sample Information

Client Sample ID: WCLB-1

York Sample ID: 16C1184-01

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 10:20 pm

Date Received

03/30/2016

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	128		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:30	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.103		mg/kg dry	0.0329	0.0329	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	03/31/2016 07:15	03/31/2016 10:09	KV

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	91.1		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	03/31/2016 12:03	03/31/2016 19:39	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.384	0.549	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	04/01/2016 09:35	04/01/2016 15:51	SC

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.549	0.549	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP	03/31/2016 08:26	03/31/2016 14:41	AD

Sample Information

Client Sample ID: WCLB-2

York Sample ID: 16C1184-02

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 10:33 pm

Date Received

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: WCLB-2

York Sample ID: 16C1184-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:33 pm

03/30/2016

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	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	84	170	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
78-93-3	2-Butanone	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
591-78-6	2-Hexanone	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
67-64-1	Acetone	13	SCAL- E, J	ug/kg dry	8.4	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK



Sample Information

Client Sample ID: WCLB-2

York Sample ID: 16C1184-02

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 10:33 pm

Date Received
03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

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	8.4	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
71-43-2	Benzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
75-25-2	Bromoform	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
74-83-9	Bromomethane	18		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
75-00-3	Chloroethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
67-66-3	Chloroform	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
74-87-3	Chloromethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
156-59-2	cis-1,2-Dichloroethylene	20		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
110-82-7	Cyclohexane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
74-95-3	Dibromomethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
79-20-9	Methyl acetate	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK



Sample Information

Client Sample ID: WCLB-2

York Sample ID: 16C1184-02

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 10:33 pm

Date Received

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

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	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
75-09-2	Methylene chloride	ND		ug/kg dry	8.4	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
95-47-6	o-Xylene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	03/31/2016 17:33	03/31/2016 21:22	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	8.4	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	03/31/2016 17:33	03/31/2016 21:22	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
100-42-5	Styrene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	8.4	17	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
127-18-4	Tetrachloroethylene	61		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
108-88-3	Toluene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 21:22	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
79-01-6	Trichloroethylene	14		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
75-01-4	Vinyl Chloride	5.7	J	ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	13	25	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 21:22	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	100 %	77-125								
2037-26-5	Surrogate: Toluene-d8	102 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	91.8 %	76-130								



Sample Information

Client Sample ID: WCLB-2

York Sample ID: 16C1184-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:33 pm

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
92-52-4	1,1'-Biphenyl	1830	J	ug/kg dry	1140	2270	50	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:35	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	2270	4530	50	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:35	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/03/2016 06:35	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:35	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/03/2016 06:35	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/03/2016 06:35	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	2270	4530	50	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:35	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:35	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	2270	4530	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
91-57-6	2-Methylnaphthalene	46600		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:35	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	2270	4530	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:35	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR



Sample Information

Client Sample ID: WCLB-2

York Sample ID: 16C1184-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:33 pm

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
99-09-2	3-Nitroaniline	ND		ug/kg dry	2270	4530	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	2270	4530	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP	04/03/2016 06:35	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	2270	4530	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	2270	4530	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR
83-32-9	Acenaphthene	3500		ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR
98-86-2	Acetophenone	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 06:35	SR
62-53-3	Aniline	ND		ug/kg dry	4540	9070	50	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR
120-12-7	Anthracene	1940	J	ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR
1912-24-9	Atrazine	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 06:35	SR
100-52-7	Benzaldehyde	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 06:35	SR
92-87-5	Benzidine	ND		ug/kg dry	4540	9070	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854	04/03/2016 06:35	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR
65-85-0	Benzoic acid	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 06:35	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:35	SR



Sample Information

Client Sample ID: WCLB-2

York Sample ID: 16C1184-02

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 10:33 pm

Date Received

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
85-68-7	Benzyl butyl phthalate	1430	J	ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
117-81-7	Bis(2-ethylhexyl)phthalate	111000		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
105-60-2	Caprolactam	ND		ug/kg dry	2270	4530	50	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:35	SR
86-74-8	Carbazole	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
218-01-9	Chrysene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:35	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
206-44-0	Fluoranthene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
86-73-7	Fluorene	4890		ug/kg dry	1140	2270	50	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
78-59-1	Isophorone	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
91-20-3	Naphthalene	13800		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:35	SR



Sample Information

Client Sample ID: WCLB-2

York Sample ID: 16C1184-02

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 10:33 pm

Date Received

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
98-95-3	Nitrobenzene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:35	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
86-30-6	N-Nitrosodiphenylamine	7880		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:35	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
85-01-8	Phenanthrene	10900		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
108-95-2	Phenol	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
129-00-0	Pyrene	ND		ug/kg dry	1140	2270	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:35	SR
Surrogate Recoveries		Result		Acceptance Range							
367-12-4	Surrogate: 2-Fluorophenol	16.0 %	S-08		20-108						
4165-62-2	Surrogate: Phenol-d5	14.0 %	S-08		23-114						
4165-60-0	Surrogate: Nitrobenzene-d5	24.9 %			22-108						
321-60-8	Surrogate: 2-Fluorobiphenyl	85.7 %			21-113						
118-79-6	Surrogate: 2,4,6-Tribromophenol	20.6 %			19-110						
1718-51-0	Surrogate: Terphenyl-d14	77.0 %			24-116						

Pesticides, NJDEP/TCL/Part 375 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
72-54-8	4,4'-DDD	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 20:10	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	71.7	71.7	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC



Sample Information

Client Sample ID: WCLB-2

York Sample ID: 16C1184-02

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 10:33 pm

Date Received
03/30/2016

Pesticides, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
72-20-8	Endrin	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 20:10	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 20:10	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	1.79	1.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:10	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	179	179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 20:10	AMC
Surrogate Recoveries		Result		Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	72.5 %		30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	47.5 %		30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 17:59	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 17:59	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 17:59	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 17:59	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 17:59	AMC



Sample Information

Client Sample ID: WCLB-2

York Sample ID: 16C1184-02

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 10:33 pm

Date Received
03/30/2016

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 17:59	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0181	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 17:59	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0181	0.0181	1	EPA 8082A Certifications:	03/30/2016 14:07	03/31/2016 17:59	AMC
Surrogate Recoveries		Result		Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	58.7 %		30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	73.9 %		30-140							

Herbicides, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	21.7	21.7	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 09:11	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	21.7	21.7	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 09:11	AMC
94-75-7	2,4-D	ND		ug/kg dry	21.7	21.7	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 09:11	AMC
Surrogate Recoveries		Result		Acceptance Range							
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	75.8 %		30-150							

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	19.3		mg/kg dry	3.69	10.9	1	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	03/31/2016 13:29	04/01/2016 12:02	AMC
Surrogate Recoveries		Result		Acceptance Range							
638-68-6	Surrogate: Triacontane	78.9 %		30-150							

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-GRO	ND		mg/kg dry	62.6	125	100	EPA 8015D Certifications: NELAC-NY10854,NJDEP	04/04/2016 10:13	04/04/2016 16:39	OW
Surrogate Recoveries		Result		Acceptance Range							
460-00-4	Surrogate: p-Bromofluorobenzene	86.6 %		70-130							



Sample Information

Client Sample ID: WCLB-2

York Sample ID: 16C1184-02

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 10:33 pm

Date Received
03/30/2016

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	3970		mg/kg dry	5.43	5.43	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.543	0.543	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7440-38-2	Arsenic	ND		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7440-39-3	Barium	454		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.109	0.109	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7440-43-9	Cadmium	1.59		mg/kg dry	0.326	0.326	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7440-70-2	Calcium	657		mg/kg dry	0.543	5.43	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7440-47-3	Chromium	16.1		mg/kg dry	0.543	0.543	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7440-48-4	Cobalt	4.52		mg/kg dry	0.543	0.543	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7440-50-8	Copper	6.44		mg/kg dry	0.543	0.543	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7439-89-6	Iron	9960		mg/kg dry	2.17	2.17	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7439-92-1	Lead	5.22		mg/kg dry	0.326	0.326	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7439-95-4	Magnesium	3140		mg/kg dry	5.43	5.43	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7439-96-5	Manganese	109		mg/kg dry	0.543	0.543	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7440-02-0	Nickel	30.1		mg/kg dry	0.543	0.543	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7440-09-7	Potassium	578		mg/kg dry	5.43	5.43	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7440-22-4	Silver	ND		mg/kg dry	0.543	0.543	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7440-23-5	Sodium	546		mg/kg dry	10.9	10.9	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7440-62-2	Vanadium	15.9		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:35	ALD
7440-66-6	Zinc	272		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:35	ALD



Sample Information

Client Sample ID: WCLB-2

York Sample ID: 16C1184-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:33 pm

03/30/2016

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0657		mg/kg dry	0.0326	0.0326	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	03/31/2016 07:15	03/31/2016 08:12	KV

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	92.0		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	03/31/2016 12:03	03/31/2016 19:39	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.380	0.543	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	04/01/2016 09:35	04/01/2016 15:51	SC

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.543	0.543	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP	03/31/2016 08:26	03/31/2016 14:41	AD

Sample Information

Client Sample ID: WCLB-3

York Sample ID: 16C1184-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:49 pm

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to 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,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK



Sample Information

Client Sample ID: WCLB-3

York Sample ID: 16C1184-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:49 pm

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
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,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	49	97	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
78-93-3	2-Butanone	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
67-64-1	Acetone	ND	SCAL- E	ug/kg dry	4.9	9.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
107-02-8	Acrolein	ND		ug/kg dry	4.9	9.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK



Sample Information

Client Sample ID: WCLB-3

York Sample ID: 16C1184-03

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 10:49 pm

Date Received
03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
75-25-2	Bromoform	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
67-66-3	Chloroform	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
110-82-7	Cyclohexane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
79-20-9	Methyl acetate	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
75-09-2	Methylene chloride	ND		ug/kg dry	4.9	9.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK



Sample Information

Client Sample ID: WCLB-3

York Sample ID: 16C1184-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:49 pm

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

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
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	03/31/2016 17:33	03/31/2016 23:21	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.9	9.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	03/31/2016 17:33	03/31/2016 23:21	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
100-42-5	Styrene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	4.9	9.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
127-18-4	Tetrachloroethylene	2.8	J	ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
108-88-3	Toluene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:21	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.3	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:21	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	101 %	77-125								
2037-26-5	Surrogate: Toluene-d8	97.1 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	90.6 %	76-130								

Semi-Volatiles, NJDEP/TCL/Part 375 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
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:02	SR



Sample Information

Client Sample ID: WCLB-3

York Sample ID: 16C1184-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:49 pm

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	1140	2270	25	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:02	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/03/2016 06:02	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:02	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/03/2016 06:02	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/03/2016 06:02	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	1140	2270	25	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:02	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:02	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	1140	2270	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
91-57-6	2-Methylnaphthalene	7230		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:02	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	1140	2270	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:02	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	1140	2270	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	1140	2270	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:02	SR



Sample Information

Client Sample ID: WCLB-3

York Sample ID: 16C1184-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:49 pm

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	1140	2270	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	1140	2270	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
83-32-9	Acenaphthene	736	J	ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
98-86-2	Acetophenone	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 06:02	SR
62-53-3	Aniline	ND		ug/kg dry	2280	4550	25	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
120-12-7	Anthracene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
1912-24-9	Atrazine	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 06:02	SR
100-52-7	Benzaldehyde	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 06:02	SR
92-87-5	Benzidine	ND		ug/kg dry	2280	4550	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854	04/03/2016 06:02	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
65-85-0	Benzoic acid	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 06:02	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 06:02	SR



Sample Information

Client Sample ID: WCLB-3

York Sample ID: 16C1184-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:49 pm

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
117-81-7	Bis(2-ethylhexyl)phthalate	42500		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
105-60-2	Caprolactam	ND		ug/kg dry	1140	2270	25	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:02	SR
86-74-8	Carbazole	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
218-01-9	Chrysene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:02	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
206-44-0	Fluoranthene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
86-73-7	Fluorene	954	J	ug/kg dry	570	1140	25	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
78-59-1	Isophorone	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
91-20-3	Naphthalene	2370		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:02	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:02	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR



Sample Information

Client Sample ID: WCLB-3

York Sample ID: 16C1184-03

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 10:49 pm

Date Received

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 06:02	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
85-01-8	Phenanthrene	1920		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
108-95-2	Phenol	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
129-00-0	Pyrene	ND		ug/kg dry	570	1140	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 06:02	SR
Surrogate Recoveries		Result		Acceptance Range							
367-12-4	Surrogate: 2-Fluorophenol	14.3 %	S-08			20-108					
4165-62-2	Surrogate: Phenol-d5	46.3 %				23-114					
4165-60-0	Surrogate: Nitrobenzene-d5	63.2 %				22-108					
321-60-8	Surrogate: 2-Fluorobiphenyl	70.7 %				21-113					
118-79-6	Surrogate: 2,4,6-Tribromophenol	9.97 %	S-08			19-110					
1718-51-0	Surrogate: Terphenyl-d14	65.0 %				24-116					

Pesticides, NJDEP/TCL/Part 375 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
72-54-8	4,4'-DDD	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 20:25	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	72.0	72.0	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC



Sample Information

Client Sample ID: WCLB-3

York Sample ID: 16C1184-03

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 10:49 pm

Date Received
03/30/2016

Pesticides, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
33213-65-9	Endosulfan II	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
72-20-8	Endrin	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 20:25	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 20:25	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	180	180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 20:25	AMC
Surrogate Recoveries		Result	Acceptance Range								
2051-24-3	Surrogate: Decachlorobiphenyl	66.3 %	30-150								
877-09-8	Surrogate: Tetrachloro-m-xylene	58.8 %	30-150								

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 18:28	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 18:28	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 18:28	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 18:28	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 18:28	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 18:28	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 18:28	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications:	03/30/2016 14:07	03/31/2016 18:28	AMC



Sample Information

Client Sample ID: WCLB-3

York Sample ID: 16C1184-03

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 10:49 pm

Date Received

03/30/2016

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	60.2 %				30-140					
2051-24-3	Surrogate: Decachlorobiphenyl	72.0 %				30-140					

Herbicides, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	21.8	21.8	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 09:47	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	21.8	21.8	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 09:47	AMC
94-75-7	2,4-D	ND		ug/kg dry	21.8	21.8	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 09:47	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	96.6 %				30-150					

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	27.7		mg/kg dry	3.71	10.9	1	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	03/31/2016 13:29	04/01/2016 13:36	AMC
Surrogate Recoveries		Result			Acceptance Range						
638-68-6	Surrogate: Triaccontane	73.8 %				30-150					

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-GRO	ND		mg/kg dry	77.1	154	100	EPA 8015D Certifications: NELAC-NY10854,NJDEP	04/04/2016 10:13	04/04/2016 18:28	OW
Surrogate Recoveries		Result			Acceptance Range						
460-00-4	Surrogate: p-Bromofluorobenzene	84.1 %				70-130					

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	2400		mg/kg dry	5.45	5.45	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:52	ALD



Sample Information

Client Sample ID: WCLB-3

York Sample ID: 16C1184-03

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 10:49 pm

Date Received
03/30/2016

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7440-38-2	Arsenic	ND		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7440-39-3	Barium	7.77		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.109	0.109	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7440-43-9	Cadmium	ND		mg/kg dry	0.327	0.327	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7440-70-2	Calcium	23800		mg/kg dry	0.545	5.45	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7440-47-3	Chromium	7.40		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7440-48-4	Cobalt	2.33		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7440-50-8	Copper	5.27		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7439-89-6	Iron	4870		mg/kg dry	2.18	2.18	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7439-92-1	Lead	4.99		mg/kg dry	0.327	0.327	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7439-95-4	Magnesium	14900		mg/kg dry	5.45	5.45	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7439-96-5	Manganese	52.2		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7440-02-0	Nickel	12.8		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7440-09-7	Potassium	518		mg/kg dry	5.45	5.45	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7440-22-4	Silver	ND		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7440-23-5	Sodium	338		mg/kg dry	10.9	10.9	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7440-62-2	Vanadium	9.39		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:52	ALD
7440-66-6	Zinc	67.3		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:52	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: WCLB-3

York Sample ID: 16C1184-03

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 10:49 pm

Date Received
03/30/2016

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0327	0.0327	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	03/31/2016 07:15	03/31/2016 10:16	KV

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	91.7		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	03/31/2016 12:03	03/31/2016 19:39	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.382	0.545	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	04/01/2016 09:35	04/01/2016 15:51	SC

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.545	0.545	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP	03/31/2016 08:26	03/31/2016 14:41	AD

Sample Information

Client Sample ID: WCLB-4

York Sample ID: 16C1184-04

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 10:58 pm

Date Received
03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK



Sample Information

Client Sample ID: WCLB-4

York Sample ID: 16C1184-04

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 10:58 pm

Date Received

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	45	89	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
78-93-3	2-Butanone	3.5	J	ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
67-64-1	Acetone	12	SCAL- E	ug/kg dry	4.5	8.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
107-02-8	Acrolein	ND		ug/kg dry	4.5	8.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
71-43-2	Benzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK



Sample Information

Client Sample ID: WCLB-4

York Sample ID: 16C1184-04

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 10:58 pm

Date Received

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-97-5	Bromochloromethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
75-25-2	Bromoform	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
67-66-3	Chloroform	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
156-59-2	cis-1,2-Dichloroethylene	16		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
110-82-7	Cyclohexane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
79-20-9	Methyl acetate	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
75-09-2	Methylene chloride	ND		ug/kg dry	4.5	8.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK



Sample Information

Client Sample ID: WCLB-4

York Sample ID: 16C1184-04

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 10:58 pm

Date Received
03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

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
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	03/31/2016 17:33	03/31/2016 23:51	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.5	8.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	03/31/2016 17:33	03/31/2016 23:51	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
100-42-5	Styrene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	4.5	8.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
108-88-3	Toluene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
156-60-5	trans-1,2-Dichloroethylene	15		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:33	03/31/2016 23:51	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
75-01-4	Vinyl Chloride	31		ug/kg dry	2.2	4.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.7	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/31/2016 17:33	03/31/2016 23:51	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %	77-125								
2037-26-5	Surrogate: Toluene-d8	101 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	93.3 %	76-130								

Semi-Volatiles, NJDEP/TCL/Part 375 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
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/01/2016 15:54	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	98.8	197	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/01/2016 15:54	SR



Sample Information

Client Sample ID: WCLB-4

York Sample ID: 16C1184-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:58 pm

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/01/2016 15:54	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/01/2016 15:54	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/01/2016 15:54	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/01/2016 15:54	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	98.8	197	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/01/2016 15:54	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/01/2016 15:54	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	98.8	197	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/01/2016 15:54	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	98.8	197	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/01/2016 15:54	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	98.8	197	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	98.8	197	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/01/2016 15:54	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR



Sample Information

Client Sample ID: WCLB-4

York Sample ID: 16C1184-04

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 10:58 pm

Date Received
03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	98.8	197	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	98.8	197	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
83-32-9	Acenaphthene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
98-86-2	Acetophenone	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/01/2016 15:54	SR
62-53-3	Aniline	ND		ug/kg dry	198	396	2	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
120-12-7	Anthracene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
1912-24-9	Atrazine	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/01/2016 15:54	SR
100-52-7	Benzaldehyde	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/01/2016 15:54	SR
92-87-5	Benzidine	ND		ug/kg dry	198	396	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854	04/01/2016 15:54	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
65-85-0	Benzoic acid	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/01/2016 15:54	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 15:54	SR



Sample Information

Client Sample ID: WCLB-4

York Sample ID: 16C1184-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:58 pm

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
105-60-2	Caprolactam	ND		ug/kg dry	98.8	197	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/01/2016 15:54	SR
86-74-8	Carbazole	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
218-01-9	Chrysene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/01/2016 15:54	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
131-11-3	Dimethyl phthalate	395	B	ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
206-44-0	Fluoranthene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
86-73-7	Fluorene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
78-59-1	Isophorone	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
91-20-3	Naphthalene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/01/2016 15:54	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/01/2016 15:54	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/01/2016 15:54	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR



Sample Information

Client Sample ID: WCLB-4

York Sample ID: 16C1184-04

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 10:58 pm

Date Received
03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
85-01-8	Phenanthrene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
108-95-2	Phenol	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
129-00-0	Pyrene	ND		ug/kg dry	49.5	98.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/01/2016 15:54	SR
Surrogate Recoveries		Result		Acceptance Range							
367-12-4	Surrogate: 2-Fluorophenol	13.6 %	S-04		20-108						
4165-62-2	Surrogate: Phenol-d5	35.3 %			23-114						
4165-60-0	Surrogate: Nitrobenzene-d5	42.3 %			22-108						
321-60-8	Surrogate: 2-Fluorobiphenyl	40.1 %			21-113						
118-79-6	Surrogate: 2,4,6-Tribromophenol	29.4 %			19-110						
1718-51-0	Surrogate: Terphenyl-d14	37.4 %			24-116						

Pesticides, NJDEP/TCL/Part 375 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
72-54-8	4,4'-DDD	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 20:40	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	78.2	78.2	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC



Sample Information

Client Sample ID: WCLB-4

York Sample ID: 16C1184-04

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 10:58 pm

Date Received
03/30/2016

Pesticides, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 20:40	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 20:40	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	1.95	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:40	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	195	195	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 20:40	AMC
Surrogate Recoveries		Result		Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	80.5 %		30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	68.1 %		30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0197	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 18:58	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0197	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 18:58	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0197	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 18:58	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0197	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 18:58	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0197	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 18:58	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0197	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 18:58	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0197	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 18:58	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0197	0.0197	1	EPA 8082A Certifications:	03/30/2016 14:07	03/31/2016 18:58	AMC
Surrogate Recoveries		Result		Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	67.2 %		30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	72.9 %		30-140							



Sample Information

Client Sample ID: WCLB-4

York Sample ID: 16C1184-04

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 10:58 pm

Date Received

03/30/2016

Herbicides, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	23.7	23.7	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 10:02	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	23.7	23.7	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 10:02	AMC
94-75-7	2,4-D	ND		ug/kg dry	23.7	23.7	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 10:02	AMC
Surrogate Recoveries		Result		Acceptance Range							
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L				82.4 %	30-150					

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	36.6		mg/kg dry	4.03	11.8	1	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	03/31/2016 13:29	04/01/2016 14:07	AMC
Surrogate Recoveries		Result		Acceptance Range							
638-68-6	Surrogate: Triaccontane				85.3 %	30-150					

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-GRO	ND		mg/kg dry	35.6	71.1	100	EPA 8015D Certifications: NELAC-NY10854,NJDEP	04/04/2016 10:13	04/04/2016 19:04	OW
Surrogate Recoveries		Result		Acceptance Range							
460-00-4	Surrogate: p-Bromofluorobenzene				84.1 %	70-130					

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	3060		mg/kg dry	5.92	5.92	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.592	0.592	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7440-38-2	Arsenic	ND		mg/kg dry	1.18	1.18	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7440-39-3	Barium	10.3		mg/kg dry	1.18	1.18	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7440-41-7	Beryllium	0.355		mg/kg dry	0.118	0.118	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:57	ALD



Sample Information

Client Sample ID: WCLB-4

York Sample ID: 16C1184-04

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 10:58 pm

Date Received

03/30/2016

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		mg/kg dry	0.355	0.355	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7440-70-2	Calcium	524		mg/kg dry	0.592	5.92	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7440-47-3	Chromium	8.17		mg/kg dry	0.592	0.592	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7440-48-4	Cobalt	3.56		mg/kg dry	0.592	0.592	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7440-50-8	Copper	5.44		mg/kg dry	0.592	0.592	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7439-89-6	Iron	6220		mg/kg dry	2.37	2.37	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7439-92-1	Lead	7.64		mg/kg dry	0.355	0.355	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7439-95-4	Magnesium	1170		mg/kg dry	5.92	5.92	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7439-96-5	Manganese	42.4		mg/kg dry	0.592	0.592	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7440-02-0	Nickel	19.3		mg/kg dry	0.592	0.592	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7440-09-7	Potassium	421		mg/kg dry	5.92	5.92	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.18	1.18	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7440-22-4	Silver	ND		mg/kg dry	0.592	0.592	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7440-23-5	Sodium	354		mg/kg dry	11.8	11.8	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.18	1.18	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7440-62-2	Vanadium	11.7		mg/kg dry	1.18	1.18	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:57	ALD
7440-66-6	Zinc	27.6		mg/kg dry	1.18	1.18	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 20:57	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0355	0.0355	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	03/31/2016 07:15	03/31/2016 10:25	KV

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: WCLB-4

York Sample ID: 16C1184-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 10:58 pm

03/30/2016

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	84.4		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	03/31/2016 12:03	03/31/2016 19:39	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.415	0.592	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	04/01/2016 09:35	04/01/2016 15:51	SC

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.592	0.592	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP	03/31/2016 08:26	03/31/2016 14:41	AD

Sample Information

Client Sample ID: WCLB-5

York Sample ID: 16C1184-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 11:07 pm

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to 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	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK



Sample Information

Client Sample ID: WCLB-5

York Sample ID: 16C1184-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 11:07 pm

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

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
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	49	98	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
78-93-3	2-Butanone	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
67-64-1	Acetone	ND	SCAL- E	ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
107-02-8	Acrolein	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
71-43-2	Benzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
75-25-2	Bromoform	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
74-83-9	Bromomethane	16		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK



Sample Information

Client Sample ID: WCLB-5

York Sample ID: 16C1184-05

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 11:07 pm

Date Received

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

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
75-15-0	Carbon disulfide	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
67-66-3	Chloroform	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
110-82-7	Cyclohexane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
79-20-9	Methyl acetate	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
75-09-2	Methylene chloride	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 00:21	04/06/2016 13:28	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	04/01/2016 00:21	04/06/2016 13:28	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	04/01/2016 00:21	04/06/2016 13:28	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 00:21	04/06/2016 13:28	BK



Sample Information

Client Sample ID: WCLB-5

York Sample ID: 16C1184-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 11:07 pm

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

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
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	04/01/2016 00:21 CTDOH,NELAC-NY10854,NJDEP	04/06/2016 13:28	BK
100-42-5	Styrene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	04/01/2016 00:21 CTDOH,NELAC-NY10854,NJDEP	04/06/2016 13:28	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications:	04/01/2016 00:21 NELAC-NY10854,NJDEP	04/06/2016 13:28	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	04/01/2016 00:21 CTDOH,NELAC-NY10854,NJDEP	04/06/2016 13:28	BK
127-18-4	Tetrachloroethylene	310	E	ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	04/01/2016 00:21 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/06/2016 13:28	BK
108-88-3	Toluene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	04/01/2016 00:21 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/06/2016 13:28	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	04/01/2016 00:21 CTDOH,NELAC-NY10854,NJDEP	04/06/2016 13:28	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	04/01/2016 00:21 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/06/2016 13:28	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	04/01/2016 00:21 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/06/2016 13:28	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	04/01/2016 00:21 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/06/2016 13:28	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	04/01/2016 00:21 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/06/2016 13:28	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.4	15	1	EPA 8260C Certifications:	04/01/2016 00:21 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/06/2016 13:28	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %	77-125								
2037-26-5	Surrogate: Toluene-d8	99.7 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	102 %	76-130								

Semi-Volatiles, NJDEP/TCL/Part 375 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
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 04:57	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	465	929	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 04:57	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/03/2016 04:57	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 04:57	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/03/2016 04:57	SR



Sample Information

Client Sample ID: WCLB-5

York Sample ID: 16C1184-05

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 11:07 pm

Date Received

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/03/2016 04:57	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	465	929	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 04:57	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 04:57	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	465	929	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 04:57	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	465	929	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 04:57	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	465	929	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	465	929	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 04:57	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	465	929	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR



Sample Information

Client Sample ID: WCLB-5

York Sample ID: 16C1184-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 11:07 pm

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
100-02-7	4-Nitrophenol	ND		ug/kg dry	465	929	10	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR
83-32-9	Acenaphthene	547		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR
98-86-2	Acetophenone	ND		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 04:57	SR
62-53-3	Aniline	ND		ug/kg dry	932	1860	10	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR
120-12-7	Anthracene	409	J	ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR
1912-24-9	Atrazine	ND		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 04:57	SR
100-52-7	Benzaldehyde	ND		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 04:57	SR
92-87-5	Benzidine	ND		ug/kg dry	932	1860	10	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854	04/03/2016 04:57	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR
65-85-0	Benzoic acid	ND		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 04:57	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR
117-81-7	Bis(2-ethylhexyl)phthalate	14300		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR
105-60-2	Caprolactam	ND		ug/kg dry	465	929	10	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 04:57	SR
86-74-8	Carbazole	ND		ug/kg dry	233	465	10	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 04:57	SR



Sample Information

Client Sample ID: WCLB-5

York Sample ID: 16C1184-05

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 11:07 pm

Date Received

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
218-01-9	Chrysene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
132-64-9	Dibenzofuran	450	J	ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 04:57	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
117-84-0	Di-n-octyl phthalate	617		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
206-44-0	Fluoranthene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
86-73-7	Fluorene	855		ug/kg dry	233	465	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
78-59-1	Isophorone	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
91-20-3	Naphthalene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 04:57	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 04:57	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 04:57	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
85-01-8	Phenanthrene	1440		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
108-95-2	Phenol	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR



Sample Information

Client Sample ID: WCLB-5

York Sample ID: 16C1184-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 11:07 pm

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
129-00-0	Pyrene	ND		ug/kg dry	233	465	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 04:57	SR
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	47.5 %			20-108						
4165-62-2	Surrogate: Phenol-d5	8.79 %			23-114						
4165-60-0	Surrogate: Nitrobenzene-d5	58.8 %			22-108						
321-60-8	Surrogate: 2-Fluorobiphenyl	68.3 %			21-113						
118-79-6	Surrogate: 2,4,6-Tribromophenol	30.3 %			19-110						
1718-51-0	Surrogate: Terphenyl-d14	69.2 %			24-116						

Pesticides, NJDEP/TCL/Part 375 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
72-54-8	4,4'-DDD	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 20:55	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	73.6	73.6	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
72-20-8	Endrin	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC



Sample Information

Client Sample ID: WCLB-5

York Sample ID: 16C1184-05

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 11:07 pm

Date Received
03/30/2016

Pesticides, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53494-70-5	Endrin ketone	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 20:55	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 20:55	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:55	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	184	184	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 20:55	AMC
Surrogate Recoveries		Result		Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	57.9 %		30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	40.4 %		30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0186	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 19:56	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0186	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 19:56	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0186	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 19:56	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0186	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 19:56	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0186	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 19:56	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0186	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 19:56	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0186	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 19:56	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0186	0.0186	1	EPA 8082A Certifications:	03/30/2016 14:07	03/31/2016 19:56	AMC
Surrogate Recoveries		Result		Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	58.2 %		30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	77.8 %		30-140							

Herbicides, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: WCLB-5

York Sample ID: 16C1184-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 11:07 pm

03/30/2016

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	22.3	22.3	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 10:18	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	22.3	22.3	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 10:18	AMC
94-75-7	2,4-D	ND		ug/kg dry	22.3	22.3	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 10:18	AMC
Surrogate Recoveries		Result	Acceptance Range								
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L 85.4 %				30-150						

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	242		mg/kg dry	3.79	11.2	1	EPA 8015D	03/31/2016 13:29	04/01/2016 14:39	AMC
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
	Surrogate Recoveries	Result		Acceptance Range							
638-68-6	Surrogate: Triacontane	69.4 %		30-150							

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-GRO	ND		mg/kg dry	37.3	74.5	100	EPA 8015D Certifications: NELAC-NY10854,NJDEP	04/04/2016 10:13	04/04/2016 19:40	OW
Surrogate Recoveries		Result	Acceptance Range								
460-00-4	Surrogate: p-Bromofluorobenzene	83.0 %	70-130								

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	3070		mg/kg dry	5.58	5.58	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.558	0.558	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7440-38-2	Arsenic	ND		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7440-39-3	Barium	27.2		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.112	0.112	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7440-43-9	Cadmium	ND		mg/kg dry	0.335	0.335	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:14	ALD



Sample Information

Client Sample ID: WCLB-5

York Sample ID: 16C1184-05

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 11:07 pm

Date Received

03/30/2016

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	532		mg/kg dry	0.558	5.58	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7440-47-3	Chromium	9.05		mg/kg dry	0.558	0.558	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7440-48-4	Cobalt	2.19		mg/kg dry	0.558	0.558	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7440-50-8	Copper	5.36		mg/kg dry	0.558	0.558	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7439-89-6	Iron	6840		mg/kg dry	2.23	2.23	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7439-92-1	Lead	5.05		mg/kg dry	0.335	0.335	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7439-95-4	Magnesium	1550		mg/kg dry	5.58	5.58	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7439-96-5	Manganese	53.2		mg/kg dry	0.558	0.558	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7440-02-0	Nickel	11.2		mg/kg dry	0.558	0.558	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7440-09-7	Potassium	509		mg/kg dry	5.58	5.58	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7440-22-4	Silver	ND		mg/kg dry	0.558	0.558	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7440-23-5	Sodium	318		mg/kg dry	11.2	11.2	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7440-62-2	Vanadium	11.6		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:14	ALD
7440-66-6	Zinc	44.3		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:14	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0335	0.0335	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	03/31/2016 07:15	03/31/2016 10:34	KV

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: WCLB-5

York Sample ID: 16C1184-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 11:07 pm

03/30/2016

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	89.6		%	0.100	0.100	1	SM 2540G	03/31/2016 12:03	03/31/2016 19:39	CLS
Certifications: CTDOH											

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.391	0.558	1	EPA 7196A	04/01/2016 09:35	04/01/2016 15:51	SC
Certifications: NJDEP,CTDOH,NELAC-NY10854											

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.558	0.558	1	EPA 9014/9010C	03/31/2016 08:26	03/31/2016 14:41	AD
Certifications: NELAC-NY10854,CTDOH,NJDEP											

Sample Information

Client Sample ID: Site Wide Composite

York Sample ID: 16C1184-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 11:14 pm

03/30/2016

Volatile Organics, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311	04/01/2016 08:01	04/01/2016 11:27	BK
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP											
107-06-2	1,2-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C/1311	04/01/2016 08:01	04/01/2016 11:27	BK
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP											
106-46-7	1,4-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311	04/01/2016 08:01	04/01/2016 11:27	BK
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP											
78-93-3	2-Butanone	ND		ug/L	25	50	10	EPA 8260C/1311	04/01/2016 08:01	04/01/2016 11:27	BK
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP											
71-43-2	Benzene	ND		ug/L	25	50	10	EPA 8260C/1311	04/01/2016 08:01	04/01/2016 11:27	BK
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP											
56-23-5	Carbon tetrachloride	ND		ug/L	25	50	10	EPA 8260C/1311	04/01/2016 08:01	04/01/2016 11:27	BK
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP											
108-90-7	Chlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311	04/01/2016 08:01	04/01/2016 11:27	BK
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP											
67-66-3	Chloroform	ND		ug/L	25	50	10	EPA 8260C/1311	04/01/2016 08:01	04/01/2016 11:27	BK
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP											



Sample Information

Client Sample ID: Site Wide Composite

York Sample ID: 16C1184-06

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 11:14 pm

Date Received

03/30/2016

Volatile Organics, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	18000		ug/L	1200	2500	500	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:01	04/05/2016 23:49	BK
79-01-6	Trichloroethylene	560		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:01	04/01/2016 11:27	BK
75-01-4	Vinyl Chloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:01	04/01/2016 11:27	BK
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	95.6 %			65-135						
460-00-4	Surrogate: p-Bromofluorobenzene	89.9 %			81-114						
2037-26-5	Surrogate: Toluene-d8	103 %			86-118						

Semi-Volatiles, TCLP RCRA Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	6.79	10.5	1	EPA 8270D/1311 Certifications: NELAC-NY10854	04/04/2016 10:24	04/04/2016 14:36	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	7.60	10.5	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/04/2016 10:24	04/04/2016 14:36	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	6.89	10.5	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/04/2016 10:24	04/04/2016 14:36	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	4.98	10.5	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/04/2016 10:24	04/04/2016 14:36	SR
95-48-7	2-Methylphenol	ND		ug/L	1.80	10.5	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/04/2016 10:24	04/04/2016 14:36	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	7.82	21.1	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/04/2016 10:24	04/04/2016 14:36	SR
1319-77-3	Cresols, total	ND		ug/L	7.79	31.6	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854	04/04/2016 10:24	04/04/2016 14:36	SR
118-74-1	Hexachlorobenzene	ND		ug/L	6.22	10.5	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/04/2016 10:24	04/04/2016 14:36	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	6.97	10.5	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/04/2016 10:24	04/04/2016 14:36	SR
67-72-1	Hexachloroethane	ND		ug/L	7.64	10.5	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/04/2016 10:24	04/04/2016 14:36	SR
98-95-3	Nitrobenzene	ND		ug/L	4.14	10.5	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/04/2016 10:24	04/04/2016 14:36	SR
87-86-5	Pentachlorophenol	ND		ug/L	7.92	10.5	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/04/2016 10:24	04/04/2016 14:36	SR
110-86-1	Pyridine	ND		ug/L	6.71	10.5	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/04/2016 10:24	04/04/2016 14:36	SR
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	30.9 %			10-65						
4165-62-2	Surrogate: Phenol-d5	20.2 %			10-49						



Sample Information

Client Sample ID: Site Wide Composite

York Sample ID: 16C1184-06

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 11:14 pm

Date Received

03/30/2016

Semi-Volatiles, TCLP RCRA Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-60-0	Surrogate: Nitrobenzene-d5	64.4 %			10-96						
321-60-8	Surrogate: 2-Fluorobiphenyl	61.2 %			10-93						
118-79-6	Surrogate: 2,4,6-Tribromophenol	75.0 %			10-128						
1718-51-0	Surrogate: Terphenyl-d14	61.9 %			10-100						

Pesticides, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		ug/L	0.457	0.457	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 15:51	04/05/2016 18:22	AMC
72-20-8	Endrin	ND		ug/L	0.0457	0.0457	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 15:51	04/05/2016 18:22	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.0457	0.0457	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 15:51	04/05/2016 18:22	AMC
76-44-8	Heptachlor	ND		ug/L	0.0457	0.0457	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 15:51	04/05/2016 18:22	AMC
1024-57-3	Heptachlor epoxide	ND		ug/L	0.0457	0.0457	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 15:51	04/05/2016 18:22	AMC
72-43-5	Methoxychlor	ND		ug/L	0.0457	0.0457	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 15:51	04/05/2016 18:22	AMC
8001-35-2	Toxaphene	ND		ug/L	1.14	1.14	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 15:51	04/05/2016 18:22	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	94.3 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	86.3 %			30-120						

Herbicides, TCLP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	5.00	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/05/2016 09:22	04/06/2016 13:51	AMC
94-75-7	2,4-D	ND		ug/L	5.00	5.00	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/05/2016 09:22	04/06/2016 13:51	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	78.0 %			30-150						

Metals, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst



Sample Information

Client Sample ID: Site Wide Composite

York Sample ID: 16C1184-06

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 11:14 pm

Date Received

03/30/2016

Metals, TCLP RCRA

Sample Prepared by Method: EPA 3015A/1311

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 12:26	04/02/2016 06:52	ALD
7440-39-3	Barium	2.64		mg/L	0.011	0.011	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 12:26	04/02/2016 06:52	ALD
7440-43-9	Cadmium	0.055		mg/L	0.003	0.003	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 12:26	04/02/2016 06:52	ALD
7440-47-3	Chromium	ND		mg/L	0.006	0.006	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 12:26	04/02/2016 06:52	ALD
7439-92-1	Lead	0.088	B	mg/L	0.003	0.003	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 12:26	04/02/2016 06:52	ALD
7782-49-2	Selenium	0.020	M-SeT C, B	mg/L	0.011	0.011	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 12:26	04/02/2016 06:52	ALD
7440-22-4	Silver	ND		mg/L	0.006	0.006	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 12:26	04/02/2016 06:52	ALD

Mercury TCLP by 7473

Sample Prepared by Method: EPA 7473 water

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0000390	0.000200	1	EPA 7473/1311 Certifications: CTDOH,NJDEP,PADEP,NELAC-NY10854	04/04/2016 12:30	04/05/2016 13:58	ALD

Ignitability

Sample Prepared by Method: Analysis Preparation

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Ignitability	Non-Ignit.		-	1	1	1	EPA 1030P Certifications: CTDOH,PADEP	03/31/2016 21:23	03/31/2016 22:53	AA

Paint Filter Test

Sample Prepared by Method: Analysis Preparation

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Paint Filter Test	No Free Liquid		-	0	0	1	EPA 9095A Certifications: NELAC-NY10854	03/31/2016 21:25	03/31/2016 23:02	AA

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.2		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	03/31/2016 12:03	03/31/2016 19:39	CLS



Sample Information

Client Sample ID: Site Wide Composite

York Sample ID: 16C1184-06

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 11:14 pm

Date Received

03/30/2016

Corrosivity

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	9.37	HT-pH	pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH,PADEP	04/04/2016 16:06	04/04/2016 17:06	CLS

Reactivity-Cyanide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Cyanide	ND		mg/kg	0.250	0.250	1	EPA SW-846 Ch.7.3.4 Certifications: CTDOH,PADEP	04/06/2016 10:10	04/06/2016 13:47	AD

Reactivity-Sulfide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Sulfide	ND		mg/kg	15.0	15.0	1	EPA SW-846 Ch.7.3.4 Certifications: CTDOH,PADEP	04/06/2016 10:11	04/06/2016 13:48	AD

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 19:36	03/31/2016 14:20	CLS

TCLP Extraction for SVOCS/PEST/HERB

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 19:39	03/31/2016 14:20	CLS

TCLP Extraction for VOA by EPA 1311 ZHE

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		%	1.00	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 19:41	03/31/2016 14:21	CLS

Sample Information

Client Sample ID: DUP-1

York Sample ID: 16C1184-07

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 12:00 am

Date Received

03/30/2016



Sample Information

Client Sample ID: DUP-1

York Sample ID: 16C1184-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 12:00 am

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

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	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	73	150	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
78-93-3	2-Butanone	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
591-78-6	2-Hexanone	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS



Sample Information

Client Sample ID: DUP-1

York Sample ID: 16C1184-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 12:00 am

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	20		ug/kg dry	7.3	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
107-02-8	Acrolein	ND		ug/kg dry	7.3	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
71-43-2	Benzene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
75-25-2	Bromoform	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
74-83-9	Bromomethane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
75-00-3	Chloroethane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
67-66-3	Chloroform	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
74-87-3	Chloromethane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
110-82-7	Cyclohexane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
74-95-3	Dibromomethane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
79-20-9	Methyl acetate	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS



Sample Information

Client Sample ID: DUP-1

York Sample ID: 16C1184-07

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 12:00 am

Date Received

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

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	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
75-09-2	Methylene chloride	ND		ug/kg dry	7.3	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
95-47-6	o-Xylene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	04/01/2016 17:09	04/02/2016 01:19	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	7.3	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	04/01/2016 17:09	04/02/2016 01:19	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
100-42-5	Styrene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
75-65-0	tert-Butyl alcohol (TBA)	13	J	ug/kg dry	3.7	15	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
108-88-3	Toluene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 17:09	04/02/2016 01:19	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.7	7.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	11	22	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 17:09	04/02/2016 01:19	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	109 %	77-125								
2037-26-5	Surrogate: Toluene-d8	93.4 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	99.0 %	76-130								



Sample Information

Client Sample ID: DUP-1

York Sample ID: 16C1184-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 12:00 am

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 05:30	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	1740	3470	25	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 05:30	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/03/2016 05:30	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 05:30	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/03/2016 05:30	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: NELAC-NY10854	04/01/2016 07:46	04/03/2016 05:30	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	1740	3470	25	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 05:30	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 05:30	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	1740	3470	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 05:30	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	1740	3470	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 05:30	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR



Sample Information

Client Sample ID: DUP-1

York Sample ID: 16C1184-07

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 12:00 am

Date Received

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
99-09-2	3-Nitroaniline	ND		ug/kg dry	1740	3470	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	1740	3470	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP	04/03/2016 05:30	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	1740	3470	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	1740	3470	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
83-32-9	Acenaphthene	1070	J	ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
98-86-2	Acetophenone	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 05:30	SR
62-53-3	Aniline	ND		ug/kg dry	3480	6960	25	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
120-12-7	Anthracene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
1912-24-9	Atrazine	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 05:30	SR
100-52-7	Benzaldehyde	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 05:30	SR
92-87-5	Benzidine	ND		ug/kg dry	3480	6960	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854	04/03/2016 05:30	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
65-85-0	Benzoic acid	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP	04/03/2016 05:30	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications:	04/01/2016 07:46 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/03/2016 05:30	SR



Sample Information

Client Sample ID: DUP-1

York Sample ID: 16C1184-07

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 12:00 am

Date Received

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
117-81-7	Bis(2-ethylhexyl)phthalate	46400		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
105-60-2	Caprolactam	ND		ug/kg dry	1740	3470	25	EPA 8270D Certifications: NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 05:30	SR
86-74-8	Carbazole	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
218-01-9	Chrysene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 05:30	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
117-84-0	Di-n-octyl phthalate	1070	J	ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
206-44-0	Fluoranthene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
86-73-7	Fluorene	1400	J	ug/kg dry	871	1740	25	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
78-59-1	Isophorone	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
91-20-3	Naphthalene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 05:30	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR



Sample Information

Client Sample ID: DUP-1

York Sample ID: 16C1184-07

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 12:00 am

Date Received

03/30/2016

Semi-Volatiles, NJDEP/TCL/Part 375 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
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 05:30	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 07:46	04/03/2016 05:30	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
85-01-8	Phenanthrene	3080		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
108-95-2	Phenol	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
129-00-0	Pyrene	ND		ug/kg dry	871	1740	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 07:46	04/03/2016 05:30	SR
Surrogate Recoveries		Result		Acceptance Range							
367-12-4	Surrogate: 2-Fluorophenol	9.31 %	S-08			20-108					
4165-62-2	Surrogate: Phenol-d5	6.32 %	S-08			23-114					
4165-60-0	Surrogate: Nitrobenzene-d5	50.3 %				22-108					
321-60-8	Surrogate: 2-Fluorobiphenyl	54.8 %				21-113					
118-79-6	Surrogate: 2,4,6-Tribromophenol	11.6 %	S-08			19-110					
1718-51-0	Surrogate: Terphenyl-d14	54.5 %				24-116					

Pesticides, NJDEP/TCL/Part 375 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
72-54-8	4,4'-DDD	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
309-00-2	Aldrin	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 21:11	AMC
319-85-7	beta-BHC	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	110	110	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
319-86-8	delta-BHC	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC



Sample Information

Client Sample ID: DUP-1

York Sample ID: 16C1184-07

York Project (SDG) No.
16C1184

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
March 29, 2016 12:00 am

Date Received
03/30/2016

Pesticides, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
60-57-1	Dieldrin	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
72-20-8	Endrin	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 21:11	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 21:11	AMC
76-44-8	Heptachlor	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	2.75	2.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 21:11	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	275	275	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	03/30/2016 14:07	03/31/2016 21:11	AMC
Surrogate Recoveries		Result		Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	57.7 %		30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	40.7 %		30-150							

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0278	0.0278	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0278	0.0278	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0278	0.0278	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0278	0.0278	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0278	0.0278	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0278	0.0278	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC



Sample Information

Client Sample ID: DUP-1

York Sample ID: 16C1184-07

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

March 29, 2016 12:00 am

Date Received

03/30/2016

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0278	0.0278	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/30/2016 14:07	03/31/2016 20:25	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0278	0.0278	1	EPA 8082A Certifications:	03/30/2016 14:07	03/31/2016 20:25	AMC
Surrogate Recoveries		Result		Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	59.7 %		30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	74.9 %		30-140							

Herbicides, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	33.3	33.3	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 10:30	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	33.3	33.3	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 10:30	AMC
94-75-7	2,4-D	ND		ug/kg dry	33.3	33.3	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/05/2016 07:15	04/06/2016 10:30	AMC
Surrogate Recoveries		Result		Acceptance Range							
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	82.6 %		30-150							

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	106		mg/kg dry	5.67	16.7	1	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	03/31/2016 13:29	04/01/2016 15:10	AMC
Surrogate Recoveries		Result		Acceptance Range							
638-68-6	Surrogate: Triacontane	75.6 %		30-150							

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-GRO	ND		mg/kg dry	62.1	124	100	EPA 8015D Certifications: NELAC-NY10854,NJDEP	04/04/2016 10:13	04/04/2016 20:16	OW
Surrogate Recoveries		Result		Acceptance Range							
460-00-4	Surrogate: p-Bromofluorobenzene	83.6 %		70-130							

Metals, Target Analyte

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: DUP-1

York Sample ID: 16C1184-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 12:00 am

03/30/2016

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	12100		mg/kg dry	8.33	8.33	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.833	0.833	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7440-38-2	Arsenic	5.77		mg/kg dry	1.67	1.67	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7440-39-3	Barium	30.3		mg/kg dry	1.67	1.67	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7440-41-7	Beryllium	0.435		mg/kg dry	0.167	0.167	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7440-43-9	Cadmium	0.503		mg/kg dry	0.500	0.500	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7440-70-2	Calcium	1710		mg/kg dry	0.833	8.33	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7440-47-3	Chromium	34.2		mg/kg dry	0.833	0.833	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7440-48-4	Cobalt	9.31		mg/kg dry	0.833	0.833	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7440-50-8	Copper	19.5		mg/kg dry	0.833	0.833	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7439-89-6	Iron	24700		mg/kg dry	3.33	3.33	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7439-92-1	Lead	20.0		mg/kg dry	0.500	0.500	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7439-95-4	Magnesium	4960		mg/kg dry	8.33	8.33	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7439-96-5	Manganese	200		mg/kg dry	0.833	0.833	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7440-02-0	Nickel	37.0		mg/kg dry	0.833	0.833	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7440-09-7	Potassium	2380		mg/kg dry	8.33	8.33	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.67	1.67	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7440-22-4	Silver	ND		mg/kg dry	0.833	0.833	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7440-23-5	Sodium	1360		mg/kg dry	16.7	16.7	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.67	1.67	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7440-62-2	Vanadium	38.8		mg/kg dry	1.67	1.67	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:19	ALD
7440-66-6	Zinc	171		mg/kg dry	1.67	1.67	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 11:02	04/01/2016 21:19	ALD



Sample Information

Client Sample ID: DUP-1

York Sample ID: 16C1184-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Soil

March 29, 2016 12:00 am

03/30/2016

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0845		mg/kg dry	0.0500	0.0500	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	03/31/2016 07:15	03/31/2016 10:43	KV

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	60.0		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	03/31/2016 12:03	03/31/2016 19:39	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.583	0.833	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	04/01/2016 09:35	04/01/2016 15:51	SC

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.833	0.833	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP	03/31/2016 08:26	03/31/2016 14:41	AD

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 16C1184-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16C1184

140080114

Water

March 29, 2016 12:00 am

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 16C1184-08

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Water

Collection Date/Time

March 29, 2016 12:00 am

Date Received

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 16C1184-08

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Water

Collection Date/Time

March 29, 2016 12:00 am

Date Received

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 16C1184-08

York Project (SDG) No.

16C1184

Client Project ID

140080114

Matrix

Water

Collection Date/Time

March 29, 2016 12:00 am

Date Received

03/30/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	03/31/2016 08:39	03/31/2016 16:29	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	03/31/2016 08:39	03/31/2016 16:29	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
75-65-0	tert-Butyl alcohol (TBA)	0.57	J	ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	03/31/2016 08:39	03/31/2016 16:29	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	95.1 %	69-130
2037-26-5	Surrogate: Toluene-d8	91.2 %	81-117
460-00-4	Surrogate: p-Bromofluorobenzene	101 %	79-122



Analytical Batch Summary

Batch ID: BC61595 **Preparation Method:** EPA 3550C **Prepared By:** MGL

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-01	WCLB-1	03/30/16
16C1184-01	WCLB-1	03/30/16
16C1184-02	WCLB-2	03/30/16
16C1184-02	WCLB-2	03/30/16
16C1184-03	WCLB-3	03/30/16
16C1184-03	WCLB-3	03/30/16
16C1184-04	WCLB-4	03/30/16
16C1184-04	WCLB-4	03/30/16
16C1184-05	WCLB-5	03/30/16
16C1184-05	WCLB-5	03/30/16
16C1184-07	DUP-1	03/30/16
16C1184-07	DUP-1	03/30/16
BC61595-BLK1	Blank	03/30/16
BC61595-BLK2	Blank	03/30/16
BC61595-BS1	LCS	03/30/16
BC61595-BS2	LCS	03/30/16
BC61595-MS1	Matrix Spike	03/30/16
BC61595-MSD1	Matrix Spike Dup	03/30/16

Batch ID: BC61609 **Preparation Method:** EPA SW 846-1311 TCLP ext. for met **Prepared By:** CLS

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-06	Site Wide Composite	03/30/16
BC61609-BLK1	Blank	03/30/16

Batch ID: BC61610 **Preparation Method:** EPA SW 846-1311 TCLP extr. for SV **Prepared By:** CLS

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-06	Site Wide Composite	03/30/16
BC61610-BLK1	Blank	03/30/16

Batch ID: BC61611 **Preparation Method:** EPA SW 846-1311 TCLP ZHE for VC **Prepared By:** CLS

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-06	Site Wide Composite	03/30/16
BC61611-BLK1	Blank	03/30/16

Batch ID: BC61624 **Preparation Method:** EPA 7473 soil **Prepared By:** ALD

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-01	WCLB-1	03/31/16
16C1184-02	WCLB-2	03/31/16
16C1184-03	WCLB-3	03/31/16



16C1184-04	WCLB-4	03/31/16
16C1184-05	WCLB-5	03/31/16
16C1184-07	DUP-1	03/31/16
BC61624-BLK1	Blank	03/31/16
BC61624-DUP1	Duplicate	03/31/16
BC61624-MS1	Matrix Spike	03/31/16
BC61624-SRM1	Reference	03/31/16

Batch ID: BC61636 **Preparation Method:** Analysis Preparation Soil **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-01	WCLB-1	03/31/16
16C1184-02	WCLB-2	03/31/16
16C1184-03	WCLB-3	03/31/16
16C1184-04	WCLB-4	03/31/16
16C1184-05	WCLB-5	03/31/16
16C1184-07	DUP-1	03/31/16
BC61636-BLK1	Blank	03/31/16
BC61636-DUP1	Duplicate	03/31/16
BC61636-MS1	Matrix Spike	03/31/16
BC61636-SRM1	Reference	03/31/16

Batch ID: BC61643 **Preparation Method:** EPA 5030B **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-08	Trip Blank	03/31/16
BC61643-BLK1	Blank	03/31/16
BC61643-BS1	LCS	03/31/16
BC61643-BSD1	LCS Dup	03/31/16

Batch ID: BC61662 **Preparation Method:** % Solids Prep **Prepared By:** CLS

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-01	WCLB-1	03/31/16
16C1184-02	WCLB-2	03/31/16
16C1184-03	WCLB-3	03/31/16
16C1184-04	WCLB-4	03/31/16
16C1184-05	WCLB-5	03/31/16
16C1184-06	Site Wide Composite	03/31/16
16C1184-07	DUP-1	03/31/16
BC61662-DUP1	Duplicate	03/31/16

Batch ID: BC61669 **Preparation Method:** EPA 3550C **Prepared By:** MGL

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-01	WCLB-1	03/31/16
16C1184-02	WCLB-2	03/31/16
16C1184-03	WCLB-3	03/31/16
16C1184-04	WCLB-4	03/31/16



16C1184-05	WCLB-5	03/31/16
16C1184-07	DUP-1	03/31/16
BC61669-BLK1	Blank	03/31/16
BC61669-BS1	LCS	03/31/16
BC61669-MS1	Matrix Spike	03/31/16
BC61669-MSD1	Matrix Spike Dup	03/31/16

Batch ID: BC61679 **Preparation Method:** EPA 5035A **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-02	WCLB-2	03/31/16
16C1184-03	WCLB-3	03/31/16
16C1184-04	WCLB-4	03/31/16
BC61679-BLK1	Blank	03/31/16
BC61679-BS1	LCS	03/31/16
BC61679-BSD1	LCS Dup	03/31/16
BC61679-MS1	Matrix Spike	03/31/16
BC61679-MSD1	Matrix Spike Dup	03/31/16

Batch ID: BC61694 **Preparation Method:** Analysis Preparation **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-06	Site Wide Composite	03/31/16

Batch ID: BC61695 **Preparation Method:** Analysis Preparation **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-06	Site Wide Composite	03/31/16

Batch ID: BD60017 **Preparation Method:** EPA 3550C **Prepared By:** TB

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-01	WCLB-1	04/01/16
16C1184-02	WCLB-2	04/01/16
16C1184-03	WCLB-3	04/01/16
16C1184-04	WCLB-4	04/01/16
16C1184-05	WCLB-5	04/01/16
16C1184-07	DUP-1	04/01/16
BD60017-BLK1	Blank	04/01/16
BD60017-BS1	LCS	04/01/16

Batch ID: BD60026 **Preparation Method:** EPA 5030B/1311 **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-06	Site Wide Composite	04/01/16
BD60026-BLK1	Blank	04/01/16
BD60026-BLK2	Blank	04/01/16
BD60026-BS1	LCS	04/01/16



BD60026-BSD1	LCS Dup	04/01/16
BD60026-DUP1	Duplicate	04/01/16

Batch ID: BD60033	Preparation Method: EPA SW846-3060	Prepared By: SC

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-01	WCLB-1	04/01/16
16C1184-02	WCLB-2	04/01/16
16C1184-03	WCLB-3	04/01/16
16C1184-04	WCLB-4	04/01/16
16C1184-05	WCLB-5	04/01/16
16C1184-07	DUP-1	04/01/16
BD60033-BLK1	Blank	04/01/16
BD60033-DUP1	Duplicate	04/01/16
BD60033-MS1	Matrix Spike	04/01/16
BD60033-SRM1	Reference	04/01/16

Batch ID: BD60041	Preparation Method: EPA 3050B	Prepared By: ALD

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-01	WCLB-1	04/01/16
16C1184-02	WCLB-2	04/01/16
16C1184-03	WCLB-3	04/01/16
16C1184-04	WCLB-4	04/01/16
16C1184-05	WCLB-5	04/01/16
16C1184-07	DUP-1	04/01/16
BD60041-BLK1	Blank	04/01/16
BD60041-DUP1	Duplicate	04/01/16
BD60041-MS1	Matrix Spike	04/01/16
BD60041-SRM1	Reference	04/01/16

Batch ID: BD60050	Preparation Method: EPA 3015A/1311	Prepared By: ALD

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-06	Site Wide Composite	04/01/16
BD60050-BLK1	Blank	04/01/16
BD60050-BLK2	Blank	04/01/16
BD60050-SRM1	Reference	04/01/16

Batch ID: BD60061	Preparation Method: EPA 5035A	Prepared By: BGS

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-01	WCLB-1	04/01/16
16C1184-07	DUP-1	04/01/16
BD60061-BLK1	Blank	04/01/16
BD60061-BS1	LCS	04/01/16
BD60061-BSD1	LCS Dup	04/01/16



Batch ID: BD60068

Preparation Method: EPA 3510C/1311

Prepared By: RDS

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-06	Site Wide Composite	04/01/16
BD60068-BLK1	Blank	04/01/16
BD60068-BS1	LCS	04/01/16
BD60068-BSD1	LCS Dup	04/01/16

Batch ID: BD60111

Preparation Method: EPA 5035A

Prepared By: OW

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-01	WCLB-1	04/04/16
16C1184-02	WCLB-2	04/04/16
16C1184-03	WCLB-3	04/04/16
16C1184-04	WCLB-4	04/04/16
16C1184-05	WCLB-5	04/04/16
16C1184-07	DUP-1	04/04/16
BD60111-BLK1	Blank	04/04/16
BD60111-MS1	Matrix Spike	04/04/16
BD60111-MSD1	Matrix Spike Dup	04/04/16
BD60111-SRM1	Reference	04/04/16

Batch ID: BD60113

Preparation Method: EPA 3510C/1311

Prepared By: RDS

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-06	Site Wide Composite	04/04/16
BD60113-BLK1	Blank	04/04/16
BD60113-BS1	LCS	04/04/16
BD60113-BSD1	LCS Dup	04/04/16
BD60113-DUP1	Duplicate	04/04/16

Batch ID: BD60127

Preparation Method: EPA 7473 water

Prepared By: ALD

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-06	Site Wide Composite	04/04/16
BD60127-BLK1	Blank	04/04/16
BD60127-SRM1	Reference	04/04/16

Batch ID: BD60139

Preparation Method: Analysis Preparation

Prepared By: CLS

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-06	Site Wide Composite	04/04/16

Batch ID: BD60151

Preparation Method: EPA 3550B/8151A

Prepared By: CM

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-01	WCLB-1	04/05/16
16C1184-02	WCLB-2	04/05/16



16C1184-03	WCLB-3	04/05/16
16C1184-04	WCLB-4	04/05/16
16C1184-05	WCLB-5	04/05/16
16C1184-07	DUP-1	04/05/16
BD60151-BLK1	Blank	04/05/16
BD60151-BS1	LCS	04/05/16
BD60151-MS1	Matrix Spike	04/05/16
BD60151-MSD1	Matrix Spike Dup	04/05/16

Batch ID: BD60160 **Preparation Method:** EPA 5035A **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-05RE1	WCLB-5	04/05/16
BD60160-BLK1	Blank	04/05/16
BD60160-BLK2	Blank	04/05/16
BD60160-BS1	LCS	04/05/16
BD60160-BSD1	LCS Dup	04/05/16

Batch ID: BD60176 **Preparation Method:** EPA 3535A **Prepared By:** CM

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-06	Site Wide Composite	04/05/16
BD60176-BLK1	Blank	04/05/16
BD60176-BS1	LCS	04/05/16
BD60176-BSD1	LCS Dup	04/05/16

Batch ID: BD60202 **Preparation Method:** EPA 5030B/1311 **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-06RE1	Site Wide Composite	04/05/16
BD60202-BLK1	Blank	04/05/16
BD60202-BS1	LCS	04/05/16
BD60202-BSD1	LCS Dup	04/05/16

Batch ID: BD60221 **Preparation Method:** EPA 5035A **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-05	WCLB-5	04/01/16
BD60221-BLK1	Blank	04/06/16
BD60221-BS1	LCS	04/06/16
BD60221-BSD1	LCS Dup	04/06/16

Batch ID: BD60244 **Preparation Method:** Analysis Preparation **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-06	Site Wide Composite	04/06/16
BD60244-BLK1	Blank	04/06/16



Batch ID: BD60245 **Preparation Method:** Analysis Preparation **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
16C1184-06	Site Wide Composite	04/06/16
BD60245-BLK1	Blank	04/06/16
BD60245-BS1	LCS	04/06/16



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

Batch BC61643 - EPA 5030B

Blank (BC61643-BLK1)

Prepared & Analyzed: 03/31/2016

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	"
1,1,2,2-Tetrachloroethane	ND	0.50	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"
1,1,2-Trichloroethane	ND	0.50	"
1,1-Dichloroethane	ND	0.50	"
1,1-Dichloroethylene	ND	0.50	"
1,2,3-Trichlorobenzene	ND	0.50	"
1,2,3-Trichloropropane	ND	0.50	"
1,2,4-Trichlorobenzene	ND	0.50	"
1,2,4-Trimethylbenzene	ND	0.50	"
1,2-Dibromo-3-chloropropane	ND	0.50	"
1,2-Dibromoethane	ND	0.50	"
1,2-Dichlorobenzene	ND	0.50	"
1,2-Dichloroethane	ND	0.50	"
1,2-Dichloropropane	ND	0.50	"
1,3,5-Trimethylbenzene	ND	0.50	"
1,3-Dichlorobenzene	ND	0.50	"
1,4-Dichlorobenzene	ND	0.50	"
1,4-Dioxane	ND	80	"
2-Butanone	ND	0.50	"
2-Hexanone	ND	0.50	"
4-Methyl-2-pentanone	ND	0.50	"
Acetone	1.5	2.0	"
Acrolein	ND	0.50	"
Acrylonitrile	ND	0.50	"
Benzene	ND	0.50	"
Bromochloromethane	ND	0.50	"
Bromodichloromethane	ND	0.50	"
Bromoform	ND	0.50	"
Bromomethane	ND	0.50	"
Carbon disulfide	ND	0.50	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	0.50	"
Chloroethane	ND	0.50	"
Chloroform	ND	0.50	"
Chloromethane	ND	0.50	"
cis-1,2-Dichloroethylene	ND	0.50	"
cis-1,3-Dichloropropylene	ND	0.50	"
Cyclohexane	ND	0.50	"
Dibromochloromethane	ND	0.50	"
Dibromomethane	ND	0.50	"
Dichlorodifluoromethane	ND	0.50	"
Ethyl Benzene	ND	0.50	"
Hexachlorobutadiene	ND	0.50	"
Isopropylbenzene	ND	0.50	"
Methyl acetate	ND	0.50	"
Methyl tert-butyl ether (MTBE)	ND	0.50	"
Methylcyclohexane	ND	0.50	"
Methylene chloride	ND	2.0	"
n-Butylbenzene	ND	0.50	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BC61643 - EPA 5030B

Blank (BC61643-BLK1)

Prepared & Analyzed: 03/31/2016

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

Surrogate: 1,2-Dichloroethane-d4	9.43	"	10.0	94.3	69-130
Surrogate: Toluene-d8	9.28	"	10.0	92.8	81-117
Surrogate: p-Bromofluorobenzene	10.2	"	10.0	102	79-122

LCS (BC61643-BS1)

Prepared & Analyzed: 03/31/2016

1,1,1,2-Tetrachloroethane	10	ug/L	10.0	101	82-126
1,1,1-Trichloroethane	11	"	10.0	108	78-136
1,1,2,2-Tetrachloroethane	9.2	"	10.0	91.9	76-129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11	"	10.0	112	54-165
1,1,2-Trichloroethane	9.8	"	10.0	97.6	82-123
1,1-Dichloroethane	11	"	10.0	108	82-129
1,1-Dichloroethylene	11	"	10.0	107	68-138
1,2,3-Trichlorobenzene	9.1	"	10.0	90.9	76-136
1,2,3-Trichloropropane	9.2	"	10.0	92.4	77-128
1,2,4-Trichlorobenzene	9.3	"	10.0	92.7	76-137
1,2,4-Trimethylbenzene	10	"	10.0	101	82-132
1,2-Dibromo-3-chloropropane	8.6	"	10.0	86.0	45-147
1,2-Dibromoethane	9.8	"	10.0	98.4	83-124
1,2-Dichlorobenzene	10	"	10.0	102	79-123
1,2-Dichloroethane	11	"	10.0	108	73-132
1,2-Dichloropropane	9.6	"	10.0	96.3	78-126
1,3,5-Trimethylbenzene	10	"	10.0	101	80-131
1,3-Dichlorobenzene	10	"	10.0	104	86-122
1,4-Dichlorobenzene	10	"	10.0	104	85-124
1,4-Dioxane	190	"	200	93.5	10-349
2-Butanone	11	"	10.0	114	49-152
2-Hexanone	9.5	"	10.0	94.9	51-146
4-Methyl-2-pentanone	9.2	"	10.0	92.0	57-145
Acetone	11	"	10.0	111	14-150
Acrolein	16	"	10.0	163	10-153
Acrylonitrile	8.7	"	10.0	86.7	51-150
Benzene	11	"	10.0	114	85-126
Bromochloromethane	11	"	10.0	112	77-128
Bromodichloromethane	9.3	"	10.0	92.8	79-128
Bromoform	9.8	"	10.0	98.4	78-133
Bromomethane	4.2	"	10.0	41.5	43-168

High Bias

Low Bias



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

Batch BC61643 - EPA 5030B

LCS (BC61643-BS1)

Prepared & Analyzed: 03/31/2016

Carbon disulfide	10		ug/L	10.0		105	68-146				
Carbon tetrachloride	11		"	10.0		110	77-141				
Chlorobenzene	11		"	10.0		106	88-120				
Chloroethane	10		"	10.0		105	65-136				
Chloroform	11		"	10.0		107	82-128				
Chloromethane	6.2		"	10.0		62.2	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		111	83-129				
cis-1,3-Dichloropropylene	10		"	10.0		101	80-131				
Cyclohexane	12		"	10.0		118	63-149				
Dibromochloromethane	9.8		"	10.0		97.5	80-130				
Dibromomethane	9.2		"	10.0		91.6	72-134				
Dichlorodifluoromethane	8.0		"	10.0		80.5	44-144				
Ethyl Benzene	10		"	10.0		103	80-131				
Hexachlorobutadiene	10		"	10.0		102	67-146				
Isopropylbenzene	11		"	10.0		108	76-140				
Methyl acetate	11		"	10.0		113	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		110	76-135				
Methylcyclohexane	10		"	10.0		104	72-143				
Methylene chloride	10		"	10.0		104	55-137				
n-Butylbenzene	9.8		"	10.0		98.4	79-132				
n-Propylbenzene	11		"	10.0		106	78-133				
o-Xylene	11		"	10.0		110	78-130				
p- & m- Xylenes	21		"	20.0		107	77-133				
p-Isopropyltoluene	10		"	10.0		100	81-136				
sec-Butylbenzene	11		"	10.0		108	79-137				
Styrene	9.9		"	10.0		99.0	67-132				
tert-Butyl alcohol (TBA)	11		"	10.0		106	25-162				
tert-Butylbenzene	11		"	10.0		107	77-138				
Tetrachloroethylene	10		"	10.0		100	82-131				
Toluene	9.5		"	10.0		94.6	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		111	80-132				
trans-1,3-Dichloropropylene	9.9		"	10.0		98.9	78-131				
Trichloroethylene	9.9		"	10.0		98.8	82-128				
Trichlorofluoromethane	11		"	10.0		107	67-139				
Vinyl Chloride	10		"	10.0		104	58-145				
Surrogate: 1,2-Dichloroethane-d4	9.11		"	10.0		91.1	69-130				
Surrogate: Toluene-d8	9.33		"	10.0		93.3	81-117				
Surrogate: p-Bromofluorobenzene	10.1		"	10.0		101	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC61643 - EPA 5030B											
LCS Dup (BC61643-BSD1)						Prepared & Analyzed: 03/31/2016					
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		101	82-126		0.395	30	
1,1,1-Trichloroethane	11		"	10.0		109	78-136		0.739	30	
1,1,2,2-Tetrachloroethane	9.4		"	10.0		94.1	76-129		2.37	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		114	54-165		1.86	30	
1,1,2-Trichloroethane	9.9		"	10.0		98.6	82-123		1.02	30	
1,1-Dichloroethane	11		"	10.0		110	82-129		1.01	30	
1,1-Dichloroethylene	11		"	10.0		106	68-138		1.03	30	
1,2,3-Trichlorobenzene	9.3		"	10.0		92.8	76-136		2.07	30	
1,2,3-Trichloropropane	9.3		"	10.0		93.3	77-128		0.969	30	
1,2,4-Trichlorobenzene	9.4		"	10.0		93.6	76-137		0.966	30	
1,2,4-Trimethylbenzene	9.9		"	10.0		99.3	82-132		1.40	30	
1,2-Dibromo-3-chloropropane	8.7		"	10.0		87.2	45-147		1.39	30	
1,2-Dibromoethane	10		"	10.0		100	83-124		1.61	30	
1,2-Dichlorobenzene	10		"	10.0		101	79-123		0.493	30	
1,2-Dichloroethane	11		"	10.0		109	73-132		0.832	30	
1,2-Dichloropropane	9.8		"	10.0		97.5	78-126		1.24	30	
1,3,5-Trimethylbenzene	10		"	10.0		99.8	80-131		1.59	30	
1,3-Dichlorobenzene	10		"	10.0		104	86-122		0.674	30	
1,4-Dichlorobenzene	10		"	10.0		103	85-124		1.16	30	
1,4-Dioxane	160		"	200		78.2	10-349		17.9	30	
2-Butanone	11		"	10.0		109	49-152		4.65	30	
2-Hexanone	9.4		"	10.0		94.1	51-146		0.847	30	
4-Methyl-2-pentanone	9.4		"	10.0		94.2	57-145		2.36	30	
Acetone	10		"	10.0		100	14-150		10.3	30	
Acrolein	17		"	10.0		168	10-153	High Bias	2.90	30	
Acrylonitrile	9.6		"	10.0		96.3	51-150		10.5	30	
Benzene	11		"	10.0		115	85-126		0.525	30	
Bromochloromethane	11		"	10.0		113	77-128		0.178	30	
Bromodichloromethane	9.4		"	10.0		93.5	79-128		0.751	30	
Bromoform	10		"	10.0		99.8	78-133		1.41	30	
Bromomethane	4.8		"	10.0		48.0	43-168		14.5	30	
Carbon disulfide	10		"	10.0		104	68-146		0.478	30	
Carbon tetrachloride	11		"	10.0		111	77-141		0.451	30	
Chlorobenzene	11		"	10.0		106	88-120		0.661	30	
Chloroethane	11		"	10.0		108	65-136		2.91	30	
Chloroform	11		"	10.0		109	82-128		1.57	30	
Chloromethane	6.2		"	10.0		62.3	43-155		0.161	30	
cis-1,2-Dichloroethylene	11		"	10.0		113	83-129		1.61	30	
cis-1,3-Dichloropropylene	10		"	10.0		102	80-131		0.197	30	
Cyclohexane	12		"	10.0		115	63-149		2.31	30	
Dibromochloromethane	10		"	10.0		99.5	80-130		2.03	30	
Dibromomethane	9.3		"	10.0		93.4	72-134		1.95	30	
Dichlorodifluoromethane	8.0		"	10.0		79.6	44-144		1.12	30	
Ethyl Benzene	10		"	10.0		103	80-131		0.486	30	
Hexachlorobutadiene	10		"	10.0		100	67-146		1.87	30	
Isopropylbenzene	11		"	10.0		107	76-140		1.12	30	
Methyl acetate	11		"	10.0		113	51-139		0.354	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		112	76-135		1.90	30	
Methylcyclohexane	10		"	10.0		104	72-143		0.0964	30	
Methylene chloride	10		"	10.0		105	55-137		0.862	30	
n-Butylbenzene	9.7		"	10.0		96.8	79-132		1.64	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

Batch BC61643 - EPA 5030B

LCS Dup (BC61643-BSD1)

Prepared & Analyzed: 03/31/2016

n-Propylbenzene	11		ug/L	10.0		106	78-133		0.849	30	
o-Xylene	11		"	10.0		110	78-130		0.00	30	
p- & m- Xylenes	21		"	20.0		107	77-133		0.420	30	
p-Isopropyltoluene	9.8		"	10.0		98.4	81-136		1.91	30	
sec-Butylbenzene	11		"	10.0		106	79-137		1.41	30	
Styrene	10		"	10.0		99.8	67-132		0.805	30	
tert-Butyl alcohol (TBA)	11		"	10.0		108	25-162		2.24	30	
tert-Butylbenzene	11		"	10.0		106	77-138		1.03	30	
Tetrachloroethylene	9.8		"	10.0		98.2	82-131		1.82	30	
Toluene	9.5		"	10.0		94.6	80-127		0.00	30	
trans-1,2-Dichloroethylene	11		"	10.0		111	80-132		0.451	30	
trans-1,3-Dichloropropylene	9.9		"	10.0		99.4	78-131		0.504	30	
Trichloroethylene	9.8		"	10.0		98.4	82-128		0.406	30	
Trichlorofluoromethane	11		"	10.0		107	67-139		0.0937	30	
Vinyl Chloride	10		"	10.0		103	58-145		1.36	30	
Surrogate: 1,2-Dichloroethane-d4	9.22		"	10.0		92.2	69-130				
Surrogate: Toluene-d8	9.29		"	10.0		92.9	81-117				
Surrogate: p-Bromofluorobenzene	10.0		"	10.0		100	79-122				

Batch BC61679 - EPA 5035A

Blank (BC61679-BLK1)

Prepared & Analyzed: 03/31/2016

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	"



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

Batch BC61679 - EPA 5035A

Blank (BC61679-BLK1)

Prepared & Analyzed: 03/31/2016

Bromomethane	ND	5.0	ug/kg wet								
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	"								
n-Butylbenzene	ND	5.0	"								
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	10	"								
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	48.3		ug/L	50.0		96.7	77-125				
Surrogate: Toluene-d8	49.3		"	50.0		98.7	85-120				
Surrogate: p-Bromofluorobenzene	47.1		"	50.0		94.1	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC61679 - EPA 5035A											
LCS (BC61679-BS1)						Prepared & Analyzed: 03/31/2016					
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		102	75-129				
1,1,1-Trichloroethane	52		"	50.0		104	71-137				
1,1,2,2-Tetrachloroethane	51		"	50.0		102	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49		"	50.0		98.4	58-146				
1,1,2-Trichloroethane	48		"	50.0		96.9	83-123				
1,1-Dichloroethane	51		"	50.0		102	75-130				
1,1-Dichloroethylene	47		"	50.0		94.3	64-137				
1,2,3-Trichlorobenzene	49		"	50.0		97.8	81-140				
1,2,3-Trichloropropane	50		"	50.0		99.9	81-126				
1,2,4-Trichlorobenzene	51		"	50.0		101	80-141				
1,2,4-Trimethylbenzene	51		"	50.0		102	84-125				
1,2-Dibromo-3-chloropropane	48		"	50.0		95.4	74-142				
1,2-Dibromoethane	53		"	50.0		105	86-123				
1,2-Dichlorobenzene	53		"	50.0		106	85-122				
1,2-Dichloroethane	51		"	50.0		103	71-133				
1,2-Dichloropropane	50		"	50.0		99.4	81-122				
1,3,5-Trimethylbenzene	51		"	50.0		102	82-126				
1,3-Dichlorobenzene	51		"	50.0		102	84-124				
1,4-Dichlorobenzene	53		"	50.0		106	84-124				
1,4-Dioxane	1000		"	1000		101	10-228				
2-Butanone	44		"	50.0		88.0	58-147				
2-Hexanone	46		"	50.0		91.8	70-139				
4-Methyl-2-pentanone	45		"	50.0		89.3	72-132				
Acetone	38		"	50.0		76.6	36-155				
Acrolein	78		"	50.0		156	10-238				
Acrylonitrile	52		"	50.0		103	66-141				
Benzene	50		"	50.0		101	77-127				
Bromochloromethane	50		"	50.0		99.1	74-129				
Bromodichloromethane	49		"	50.0		98.5	81-124				
Bromoform	53		"	50.0		106	80-136				
Bromomethane	42		"	50.0		84.9	32-177				
Carbon disulfide	45		"	50.0		90.5	10-136				
Carbon tetrachloride	51		"	50.0		102	66-143				
Chlorobenzene	52		"	50.0		104	86-120				
Chloroethane	41		"	50.0		81.8	51-142				
Chloroform	52		"	50.0		103	76-131				
Chloromethane	39		"	50.0		78.5	49-132				
cis-1,2-Dichloroethylene	52		"	50.0		104	74-132				
cis-1,3-Dichloropropylene	51		"	50.0		102	81-129				
Cyclohexane	50		"	50.0		100	70-130				
Dibromochloromethane	52		"	50.0		104	10-200				
Dibromomethane	50		"	50.0		101	83-124				
Dichlorodifluoromethane	34		"	50.0		68.6	28-158				
Ethyl Benzene	48		"	50.0		96.8	84-125				
Hexachlorobutadiene	49		"	50.0		98.6	83-133				
Isopropylbenzene	52		"	50.0		104	81-127				
Methyl acetate	47		"	50.0		94.6	41-143				
Methyl tert-butyl ether (MTBE)	50		"	50.0		100	74-131				
Methylcyclohexane	47		"	50.0		94.6	70-130				
Methylene chloride	45		"	50.0		90.9	57-141				
n-Butylbenzene	50		"	50.0		99.0	80-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BC61679 - EPA 5035A

LCS (BC61679-BS1)

Prepared & Analyzed: 03/31/2016

n-Propylbenzene	50		ug/L	50.0		100	74-136				
o-Xylene	49		"	50.0		98.7	83-123				
p- & m- Xylenes	96		"	100		96.2	82-128				
p-Isopropyltoluene	51		"	50.0		103	85-125				
sec-Butylbenzene	52		"	50.0		104	83-125				
Styrene	51		"	50.0		101	86-126				
tert-Butyl alcohol (TBA)	46		"	50.0		92.9	70-130				
tert-Butylbenzene	53		"	50.0		106	80-127				
Tetrachloroethylene	48		"	50.0		96.9	80-129				
Toluene	50		"	50.0		100	85-121				
trans-1,2-Dichloroethylene	49		"	50.0		98.4	72-132				
trans-1,3-Dichloropropylene	50		"	50.0		99.0	78-132				
Trichloroethylene	50		"	50.0		99.9	84-123				
Trichlorofluoromethane	44		"	50.0		88.4	62-140				
Vinyl Chloride	41		"	50.0		82.3	52-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.2</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>50.3</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>52.2</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>76-130</i>				

LCS Dup (BC61679-BSD1)

Prepared & Analyzed: 03/31/2016

1,1,1,2-Tetrachloroethane	52		ug/L	50.0		104	75-129		1.69	30	
1,1,1-Trichloroethane	52		"	50.0		103	71-137		1.31	30	
1,1,2,2-Tetrachloroethane	55		"	50.0		109	79-129		6.97	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48		"	50.0		95.9	58-146		2.49	30	
1,1,2-Trichloroethane	52		"	50.0		103	83-123		6.20	30	
1,1-Dichloroethane	51		"	50.0		102	75-130		0.392	30	
1,1-Dichloroethylene	47		"	50.0		93.4	64-137		1.00	30	
1,2,3-Trichlorobenzene	52		"	50.0		104	81-140		5.91	30	
1,2,3-Trichloropropane	53		"	50.0		106	81-126		6.21	30	
1,2,4-Trichlorobenzene	52		"	50.0		105	80-141		3.52	30	
1,2,4-Trimethylbenzene	54		"	50.0		107	84-125		5.13	30	
1,2-Dibromo-3-chloropropane	52		"	50.0		104	74-142		8.88	30	
1,2-Dibromoethane	53		"	50.0		106	86-123		0.702	30	
1,2-Dichlorobenzene	52		"	50.0		105	85-122		1.33	30	
1,2-Dichloroethane	51		"	50.0		103	71-133		0.214	30	
1,2-Dichloropropane	50		"	50.0		99.9	81-122		0.421	30	
1,3,5-Trimethylbenzene	51		"	50.0		102	82-126		0.726	30	
1,3-Dichlorobenzene	54		"	50.0		108	84-124		5.48	30	
1,4-Dichlorobenzene	54		"	50.0		108	84-124		2.12	30	
1,4-Dioxane	1100		"	1000		113	10-228		10.6	30	
2-Butanone	44		"	50.0		88.5	58-147		0.635	30	
2-Hexanone	46		"	50.0		91.2	70-139		0.677	30	
4-Methyl-2-pentanone	45		"	50.0		89.5	72-132		0.313	30	
Acetone	39		"	50.0		77.6	36-155		1.22	30	
Acrolein	68		"	50.0		136	10-238		14.1	30	
Acrylonitrile	50		"	50.0		101	66-141		2.49	30	
Benzene	51		"	50.0		101	77-127		0.435	30	
Bromochloromethane	47		"	50.0		94.7	74-129		4.54	30	
Bromodichloromethane	52		"	50.0		103	81-124		4.55	30	
Bromoform	55		"	50.0		110	80-136		3.66	30	
Bromomethane	45		"	50.0		90.0	32-177		5.86	30	
Carbon disulfide	44		"	50.0		88.4	10-136		2.42	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

Batch BC61679 - EPA 5035A

LCS Dup (BC61679-BSD1)

Prepared & Analyzed: 03/31/2016

Carbon tetrachloride	50		ug/L	50.0		99.0	66-143		2.45	30	
Chlorobenzene	53		"	50.0		106	86-120		1.60	30	
Chloroethane	43		"	50.0		86.6	51-142		5.75	30	
Chloroform	50		"	50.0		101	76-131		2.43	30	
Chloromethane	39		"	50.0		78.8	49-132		0.381	30	
cis-1,2-Dichloroethylene	51		"	50.0		102	74-132		2.16	30	
cis-1,3-Dichloropropylene	51		"	50.0		102	81-129		0.705	30	
Cyclohexane	45		"	50.0		90.5	70-130		10.1	30	
Dibromochloromethane	53		"	50.0		106	10-200		2.52	30	
Dibromomethane	50		"	50.0		100	83-124		0.837	30	
Dichlorodifluoromethane	35		"	50.0		70.3	28-158		2.36	30	
Ethyl Benzene	50		"	50.0		99.7	84-125		2.95	30	
Hexachlorobutadiene	53		"	50.0		105	83-133		6.31	30	
Isopropylbenzene	53		"	50.0		106	81-127		1.71	30	
Methyl acetate	48		"	50.0		95.2	41-143		0.632	30	
Methyl tert-butyl ether (MTBE)	49		"	50.0		98.0	74-131		2.50	30	
Methylcyclohexane	49		"	50.0		97.7	70-130		3.16	30	
Methylene chloride	45		"	50.0		90.4	57-141		0.485	30	
n-Butylbenzene	50		"	50.0		100	80-130		1.16	30	
n-Propylbenzene	52		"	50.0		104	74-136		3.08	30	
o-Xylene	49		"	50.0		98.6	83-123		0.162	30	
p- & m- Xylenes	97		"	100		97.1	82-128		0.880	30	
p-Isopropyltoluene	51		"	50.0		102	85-125		0.878	30	
sec-Butylbenzene	53		"	50.0		106	83-125		2.20	30	
Styrene	51		"	50.0		102	86-126		1.24	30	
tert-Butyl alcohol (TBA)	49		"	50.0		97.0	70-130		4.38	30	
tert-Butylbenzene	56		"	50.0		112	80-127		5.78	30	
Tetrachloroethylene	48		"	50.0		95.1	80-129		1.85	30	
Toluene	51		"	50.0		101	85-121		0.675	30	
trans-1,2-Dichloroethylene	49		"	50.0		97.5	72-132		0.939	30	
trans-1,3-Dichloropropylene	50		"	50.0		101	78-132		1.72	30	
Trichloroethylene	50		"	50.0		99.9	84-123		0.0601	30	
Trichlorofluoromethane	44		"	50.0		88.9	62-140		0.542	30	
Vinyl Chloride	40		"	50.0		80.2	52-130		2.61	30	
Surrogate: 1,2-Dichloroethane-d4	48.4		"	50.0		96.9	77-125				
Surrogate: Toluene-d8	48.5		"	50.0		97.1	85-120				
Surrogate: p-Bromofluorobenzene	52.5		"	50.0		105	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC61679 - EPA 5035A											
Matrix Spike (BC61679-MS1)	*Source sample: 16C1184-02 (WCLB-2)						Prepared & Analyzed: 03/31/2016				
1,1,1,2-Tetrachloroethane	46		ug/L	50.0	ND	92.9	15-161				
1,1,1-Trichloroethane	47		"	50.0	ND	94.1	42-145				
1,1,2,2-Tetrachloroethane	44		"	50.0	ND	89.0	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	39		"	50.0	ND	77.4	11-160				
1,1,2-Trichloroethane	45		"	50.0	ND	89.4	44-145				
1,1-Dichloroethane	46		"	50.0	ND	91.9	46-142				
1,1-Dichloroethylene	42		"	50.0	ND	83.5	30-153				
1,2,3-Trichlorobenzene	23		"	50.0	ND	45.1	10-157				
1,2,3-Trichloropropane	46		"	50.0	ND	91.8	38-155				
1,2,4-Trichlorobenzene	23		"	50.0	ND	46.9	10-151				
1,2,4-Trimethylbenzene	37		"	50.0	ND	73.5	10-170				
1,2-Dibromo-3-chloropropane	40		"	50.0	ND	80.7	36-138				
1,2-Dibromoethane	42		"	50.0	ND	84.5	40-142				
1,2-Dichlorobenzene	33		"	50.0	ND	65.7	10-147				
1,2-Dichloroethane	43		"	50.0	ND	86.1	48-133				
1,2-Dichloropropane	46		"	50.0	ND	92.0	47-141				
1,3,5-Trimethylbenzene	39		"	50.0	ND	78.5	10-150				
1,3-Dichlorobenzene	32		"	50.0	ND	64.1	10-144				
1,4-Dichlorobenzene	30		"	50.0	ND	60.5	10-160				
1,4-Dioxane	1100		"	1000	ND	114	10-191				
2-Butanone	57		"	50.0	ND	114	10-189				
2-Hexanone	41		"	50.0	ND	82.8	10-181				
4-Methyl-2-pentanone	39		"	50.0	ND	78.6	10-166				
Acetone	67		"	50.0	8.2	117	10-196				
Acrolein	65		"	50.0	ND	131	10-192				
Acrylonitrile	44		"	50.0	ND	87.6	13-161				
Benzene	43		"	50.0	ND	85.9	43-139				
Bromochloromethane	42		"	50.0	ND	83.7	38-145				
Bromodichloromethane	45		"	50.0	ND	89.0	38-147				
Bromoform	47		"	50.0	ND	94.0	29-156				
Bromomethane	40		"	50.0	11	56.6	10-166				
Carbon disulfide	35		"	50.0	ND	70.3	10-131				
Carbon tetrachloride	44		"	50.0	ND	88.1	35-145				
Chlorobenzene	38		"	50.0	ND	76.2	21-154				
Chloroethane	41		"	50.0	ND	81.8	15-160				
Chloroform	47		"	50.0	ND	93.1	47-142				
Chloromethane	34		"	50.0	ND	68.0	10-159				
cis-1,2-Dichloroethylene	46		"	50.0	13	66.4	42-144				
cis-1,3-Dichloropropylene	40		"	50.0	ND	80.8	18-159				
Cyclohexane	41		"	50.0	ND	81.6	70-130				
Dibromochloromethane	46		"	50.0	ND	92.2	10-179				
Dibromomethane	42		"	50.0	ND	83.6	47-143				
Dichlorodifluoromethane	23		"	50.0	ND	46.5	10-145				
Ethyl Benzene	40		"	50.0	ND	80.4	11-158				
Hexachlorobutadiene	33		"	50.0	ND	66.7	10-158				
Isopropylbenzene	44		"	50.0	ND	87.9	10-162				
Methyl acetate	49		"	50.0	ND	98.3	10-149				
Methyl tert-butyl ether (MTBE)	46		"	50.0	ND	91.1	42-152				
Methylcyclohexane	38		"	50.0	ND	76.0	70-130				
Methylene chloride	41		"	50.0	ND	81.8	28-151				
n-Butylbenzene	34		"	50.0	ND	67.3	10-162				



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
Batch BC61679 - EPA 5035A											
Matrix Spike (BC61679-MS1)	*Source sample: 16C1184-02 (WCLB-2)						Prepared & Analyzed: 03/31/2016				
n-Propylbenzene	38		ug/L	50.0	ND	75.7	10-155				
o-Xylene	39		"	50.0	ND	77.9	10-158				
p- & m- Xylenes	76		"	100	ND	75.7	10-156				
p-Isopropyltoluene	39		"	50.0	ND	78.0	10-147				
sec-Butylbenzene	40		"	50.0	ND	80.3	10-157				
Styrene	33		"	50.0	ND	66.7	13-171				
tert-Butyl alcohol (TBA)	45		"	50.0	ND	89.9	34-179				
tert-Butylbenzene	39		"	50.0	ND	79.0	10-160				
Tetrachloroethylene	84		"	50.0	39	89.6	30-167				
Toluene	41		"	50.0	ND	82.6	21-160				
trans-1,2-Dichloroethylene	38		"	50.0	ND	76.2	29-153				
trans-1,3-Dichloropropylene	36		"	50.0	ND	71.6	18-155				
Trichloroethylene	47		"	50.0	8.7	77.3	24-169				
Trichlorofluoromethane	39		"	50.0	ND	78.0	35-142				
Vinyl Chloride	38		"	50.0	3.6	68.3	12-160				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.0</i>		<i>"</i>	<i>50.0</i>		<i>97.9</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.5</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>52.6</i>		<i>"</i>	<i>50.0</i>		<i>105</i>	<i>70-130</i>				
Matrix Spike Dup (BC61679-MSD1)	*Source sample: 16C1184-02 (WCLB-2)						Prepared & Analyzed: 03/31/2016				
1,1,1,2-Tetrachloroethane	42		ug/L	50.0	ND	83.7	15-161		10.4	33	
1,1,1-Trichloroethane	43		"	50.0	ND	86.3	42-145		8.62	30	
1,1,2,2-Tetrachloroethane	45		"	50.0	ND	90.5	16-167		1.72	56	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	37		"	50.0	ND	73.3	11-160		5.44	31	
1,1,2-Trichloroethane	41		"	50.0	ND	82.9	44-145		7.48	40	
1,1-Dichloroethane	41		"	50.0	ND	82.9	46-142		10.3	36	
1,1-Dichloroethylene	38		"	50.0	ND	76.8	30-153		8.31	31	
1,2,3-Trichlorobenzene	19		"	50.0	ND	38.5	10-157		15.7	47	
1,2,3-Trichloropropane	48		"	50.0	ND	96.1	38-155		4.58	48	
1,2,4-Trichlorobenzene	20		"	50.0	ND	39.5	10-151		17.1	52	
1,2,4-Trimethylbenzene	50		"	50.0	ND	100	10-170		30.7	242	
1,2-Dibromo-3-chloropropane	44		"	50.0	ND	88.2	36-138		8.91	54	
1,2-Dibromoethane	43		"	50.0	ND	85.1	40-142		0.755	39	
1,2-Dichlorobenzene	32		"	50.0	ND	64.1	10-147		2.53	52	
1,2-Dichloroethane	41		"	50.0	ND	82.7	48-133		4.03	32	
1,2-Dichloropropane	44		"	50.0	ND	87.2	47-141		5.35	37	
1,3,5-Trimethylbenzene	42		"	50.0	ND	83.7	10-150		6.41	62	
1,3-Dichlorobenzene	32		"	50.0	ND	64.2	10-144		0.156	51	
1,4-Dichlorobenzene	31		"	50.0	ND	61.1	10-160		0.987	52	
1,4-Dioxane	1800		"	1000	ND	180	10-191		44.8	196	
2-Butanone	53		"	50.0	ND	105	10-189		8.23	67	
2-Hexanone	44		"	50.0	ND	88.3	10-181		6.43	60	
4-Methyl-2-pentanone	39		"	50.0	ND	77.7	10-166		1.15	47	
Acetone	57		"	50.0	7.4	98.7	10-196		15.9	150	
Acrolein	63		"	50.0	ND	126	10-192		3.27	128	
Acrylonitrile	43		"	50.0	ND	86.9	13-161		0.826	48	
Benzene	40		"	50.0	ND	80.7	43-139		6.24	64	
Bromochloromethane	37		"	50.0	ND	74.8	38-145		11.2	30	
Bromodichloromethane	41		"	50.0	ND	82.9	38-147		7.19	37	
Bromoform	44		"	50.0	ND	88.9	29-156		5.51	51	
Bromomethane	35		"	50.0	10	48.5	10-166		13.9	42	
Carbon disulfide	34		"	50.0	ND	68.6	10-131		2.33	36	



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
Batch BC61679 - EPA 5035A											
Matrix Spike Dup (BC61679-MSD1)	*Source sample: 16C1184-02 (WCLB-2)						Prepared & Analyzed: 03/31/2016				
Carbon tetrachloride	41		ug/L	50.0	ND	82.9	35-145		6.01	31	
Chlorobenzene	38		"	50.0	ND	75.3	21-154		1.19	32	
Chloroethane	35		"	50.0	ND	69.9	15-160		15.7	40	
Chloroform	42		"	50.0	ND	84.4	47-142		9.76	29	
Chloromethane	32		"	50.0	ND	63.9	10-159		6.31	31	
cis-1,2-Dichloroethylene	51		"	50.0	12	78.1	42-144		9.46	30	
cis-1,3-Dichloropropylene	39		"	50.0	ND	78.5	18-159		2.91	39	
Cyclohexane	37		"	50.0	ND	74.0	70-130		9.67	30	
Dibromochloromethane	43		"	50.0	ND	85.6	10-179		7.49	41	
Dibromomethane	41		"	50.0	ND	82.4	47-143		1.40	41	
Dichlorodifluoromethane	23		"	50.0	ND	45.1	10-145		3.06	34	
Ethyl Benzene	39		"	50.0	ND	79.0	11-158		1.76	42	
Hexachlorobutadiene	21		"	50.0	ND	41.3	10-158		47.0	45	Non-dir.
Isopropylbenzene	42		"	50.0	ND	84.5	10-162		3.90	57	
Methyl acetate	49		"	50.0	ND	98.0	10-149		0.346	64	
Methyl tert-butyl ether (MTBE)	42		"	50.0	ND	83.3	42-152		8.92	47	
Methylcyclohexane	36		"	50.0	ND	71.4	70-130		6.22	30	
Methylene chloride	36		"	50.0	ND	72.6	28-151		11.9	49	
n-Butylbenzene	34		"	50.0	ND	67.7	10-162		0.504	96	
n-Propylbenzene	40		"	50.0	ND	80.1	10-155		5.62	56	
o-Xylene	40		"	50.0	ND	79.3	10-158		1.86	51	
p- & m- Xylenes	77		"	100	ND	77.0	10-156		1.71	47	
p-Isopropyltoluene	37		"	50.0	ND	74.8	10-147		4.22	60	
sec-Butylbenzene	38		"	50.0	ND	76.2	10-157		5.29	56	
Styrene	35		"	50.0	ND	70.5	13-171		5.63	39	
tert-Butyl alcohol (TBA)	55		"	50.0	ND	110	34-179		19.8	35	
tert-Butylbenzene	36		"	50.0	ND	72.8	10-160		8.17	79	
Tetrachloroethylene	92		"	50.0	35	113	30-167		8.96	33	
Toluene	40		"	50.0	ND	80.5	21-160		2.58	50	
trans-1,2-Dichloroethylene	38		"	50.0	ND	75.4	29-153		1.13	30	
trans-1,3-Dichloropropylene	36		"	50.0	ND	72.2	18-155		0.723	30	
Trichloroethylene	47		"	50.0	7.9	77.5	24-169		1.55	30	
Trichlorofluoromethane	36		"	50.0	ND	71.6	35-142		8.47	30	
Vinyl Chloride	35		"	50.0	3.3	64.2	12-160		6.56	35	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.6</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>48.7</i>		<i>"</i>	<i>50.0</i>		<i>97.5</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>53.5</i>		<i>"</i>	<i>50.0</i>		<i>107</i>	<i>70-130</i>				



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

Batch BD60026 - EPA 5030B/1311

Blank (BD60026-BLK1)

Prepared & Analyzed: 04/01/2016

1,1-Dichloroethylene	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
2-Butanone	ND	5.0	"
Benzene	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroform	ND	5.0	"
Tetrachloroethylene	ND	5.0	"
Trichloroethylene	ND	5.0	"
Vinyl Chloride	ND	5.0	"

Surrogate: 1,2-Dichloroethane-d4	48.4	"	50.0	96.9	65-135
Surrogate: p-Bromofluorobenzene	47.7	"	50.0	95.4	81-114
Surrogate: Toluene-d8	46.8	"	50.0	93.7	86-118

Blank (BD60026-BLK2)

Prepared & Analyzed: 04/01/2016

1,1-Dichloroethylene	ND	50	ug/L
1,2-Dichloroethane	ND	50	"
1,4-Dichlorobenzene	ND	50	"
2-Butanone	ND	50	"
Benzene	ND	50	"
Carbon tetrachloride	ND	50	"
Chlorobenzene	ND	50	"
Chloroform	ND	50	"
Tetrachloroethylene	ND	50	"
Trichloroethylene	ND	50	"
Vinyl Chloride	ND	50	"

Surrogate: 1,2-Dichloroethane-d4	48.3	"	50.0	96.5	65-135
Surrogate: p-Bromofluorobenzene	46.9	"	50.0	93.8	81-114
Surrogate: Toluene-d8	46.5	"	50.0	93.0	86-118



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

Batch BD60026 - EPA 5030B/1311

LCS (BD60026-BS1)

Prepared & Analyzed: 04/01/2016

1,1-Dichloroethylene	55		ug/L	50.0		109	68-134				
1,2-Dichloroethane	60		"	50.0		121	69-133				
1,4-Dichlorobenzene	51		"	50.0		103	82-124				
2-Butanone	59		"	50.0		118	44-169				
Benzene	57		"	50.0		115	72-134				
Carbon tetrachloride	58		"	50.0		115	62-145				
Chlorobenzene	52		"	50.0		104	85-119				
Chloroform	56		"	50.0		111	74-131				
Tetrachloroethylene	50		"	50.0		99.1	78-133				
Trichloroethylene	52		"	50.0		103	81-125				
Vinyl Chloride	62		"	50.0		124	42-136				

Surrogate: 1,2-Dichloroethane-d4

49.8

"

50.0

99.5

65-135

Surrogate: p-Bromofluorobenzene

49.1

"

50.0

98.2

81-114

Surrogate: Toluene-d8

46.5

"

50.0

93.0

86-118

LCS Dup (BD60026-BS1)

Prepared & Analyzed: 04/01/2016

1,1-Dichloroethylene	53		ug/L	50.0		107	68-134		2.24	30	
1,2-Dichloroethane	58		"	50.0		116	69-133		3.92	30	
1,4-Dichlorobenzene	51		"	50.0		101	82-124		1.20	30	
2-Butanone	52		"	50.0		105	44-169		12.0	30	
Benzene	56		"	50.0		112	72-134		1.89	30	
Carbon tetrachloride	57		"	50.0		114	62-145		1.34	30	
Chlorobenzene	52		"	50.0		103	85-119		1.25	30	
Chloroform	55		"	50.0		110	74-131		1.32	30	
Tetrachloroethylene	48		"	50.0		96.1	78-133		3.09	30	
Trichloroethylene	50		"	50.0		100	81-125		2.54	30	
Vinyl Chloride	60		"	50.0		121	42-136		2.47	30	

Surrogate: 1,2-Dichloroethane-d4

50.3

"

50.0

101

65-135

Surrogate: p-Bromofluorobenzene

47.3

"

50.0

94.5

81-114

Surrogate: Toluene-d8

44.6

"

50.0

89.2

86-118



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

Batch BD60026 - EPA 5030B/1311

Duplicate (BD60026-DUP1)		*Source sample: 16C1184-06 (Site Wide Composite)						Prepared & Analyzed: 04/01/2016			
1,1-Dichloroethylene	ND	50	ug/L		ND					200	
1,2-Dichloroethane	ND	50	"		ND					200	
1,4-Dichlorobenzene	ND	50	"		ND					200	
2-Butanone	ND	50	"		ND					200	
Benzene	ND	50	"		ND					200	
Carbon tetrachloride	ND	50	"		ND					200	
Chlorobenzene	ND	50	"		ND					200	
Chloroform	ND	50	"		ND					200	
Tetrachloroethylene	12000	50	"		18000				41.7	200	
Trichloroethylene	610	50	"		560				7.53	200	
Vinyl Chloride	ND	50	"		ND					200	
Surrogate: 1,2-Dichloroethane-d4	48.1		"	50.0		96.1	65-135				
Surrogate: p-Bromofluorobenzene	44.5		"	50.0		88.9	81-114				
Surrogate: Toluene-d8	52.9		"	50.0		106	86-118				

Batch BD60061 - EPA 5035A

Blank (BD60061-BLK1)		Prepared & Analyzed: 04/01/2016									
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	3.9	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	"								



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

Batch BD60061 - EPA 5035A

Blank (BD60061-BLK1)

Prepared & Analyzed: 04/01/2016

Chloroethane	ND	5.0	ug/kg wet								
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	"								
n-Butylbenzene	ND	5.0	"								
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	10	"								
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	51.7		ug/L	50.0		103	77-125				
Surrogate: Toluene-d8	46.9		"	50.0		93.8	85-120				
Surrogate: p-Bromofluorobenzene	48.3		"	50.0		96.5	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BD60061 - EPA 5035A

LCS (BD60061-BS1)

Prepared & Analyzed: 04/01/2016

1,1,1,2-Tetrachloroethane	52		ug/L	50.0		104	75-129				
1,1,1-Trichloroethane	61		"	50.0		121	71-137				
1,1,2,2-Tetrachloroethane	48		"	50.0		96.5	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	52		"	50.0		104	58-146				
1,1,2-Trichloroethane	51		"	50.0		102	83-123				
1,1-Dichloroethane	57		"	50.0		114	75-130				
1,1-Dichloroethylene	52		"	50.0		105	64-137				
1,2,3-Trichlorobenzene	48		"	50.0		96.5	81-140				
1,2,3-Trichloropropane	52		"	50.0		103	81-126				
1,2,4-Trichlorobenzene	47		"	50.0		94.3	80-141				
1,2,4-Trimethylbenzene	50		"	50.0		100	84-125				
1,2-Dibromo-3-chloropropane	49		"	50.0		98.2	74-142				
1,2-Dibromoethane	53		"	50.0		105	86-123				
1,2-Dichlorobenzene	49		"	50.0		98.9	85-122				
1,2-Dichloroethane	59		"	50.0		118	71-133				
1,2-Dichloropropane	51		"	50.0		103	81-122				
1,3,5-Trimethylbenzene	53		"	50.0		105	82-126				
1,3-Dichlorobenzene	51		"	50.0		102	84-124				
1,4-Dichlorobenzene	49		"	50.0		98.8	84-124				
1,4-Dioxane	1100		"	1000		112	10-228				
2-Butanone	50		"	50.0		101	58-147				
2-Hexanone	54		"	50.0		107	70-139				
4-Methyl-2-pentanone	48		"	50.0		96.0	72-132				
Acetone	52		"	50.0		104	36-155				
Acrolein	39		"	50.0		78.8	10-238				
Acrylonitrile	60		"	50.0		121	66-141				
Benzene	58		"	50.0		115	77-127				
Bromochloromethane	62		"	50.0		125	74-129				
Bromodichloromethane	54		"	50.0		109	81-124				
Bromoform	50		"	50.0		101	80-136				
Bromomethane	41		"	50.0		82.0	32-177				
Carbon disulfide	53		"	50.0		107	10-136				
Carbon tetrachloride	61		"	50.0		123	66-143				
Chlorobenzene	52		"	50.0		103	86-120				
Chloroethane	51		"	50.0		103	51-142				
Chloroform	58		"	50.0		117	76-131				
Chloromethane	54		"	50.0		109	49-132				
cis-1,2-Dichloroethylene	57		"	50.0		115	74-132				
cis-1,3-Dichloropropylene	49		"	50.0		98.3	81-129				
Cyclohexane	58		"	50.0		116	70-130				
Dibromochloromethane	53		"	50.0		106	10-200				
Dibromomethane	52		"	50.0		105	83-124				
Dichlorodifluoromethane	63		"	50.0		125	28-158				
Ethyl Benzene	52		"	50.0		104	84-125				
Hexachlorobutadiene	55		"	50.0		110	83-133				
Isopropylbenzene	53		"	50.0		105	81-127				
Methyl acetate	43		"	50.0		85.5	41-143				
Methyl tert-butyl ether (MTBE)	55		"	50.0		111	74-131				
Methylcyclohexane	55		"	50.0		110	70-130				
Methylene chloride	53		"	50.0		105	57-141				
n-Butylbenzene	51		"	50.0		102	80-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60061 - EPA 5035A											
LCS (BD60061-BS1)						Prepared & Analyzed: 04/01/2016					
n-Propylbenzene	54		ug/L	50.0		107	74-136				
o-Xylene	53		"	50.0		107	83-123				
p- & m- Xylenes	110		"	100		105	82-128				
p-Isopropyltoluene	53		"	50.0		107	85-125				
sec-Butylbenzene	54		"	50.0		108	83-125				
Styrene	52		"	50.0		104	86-126				
tert-Butyl alcohol (TBA)	53		"	50.0		105	70-130				
tert-Butylbenzene	53		"	50.0		106	80-127				
Tetrachloroethylene	59		"	50.0		118	80-129				
Toluene	54		"	50.0		108	85-121				
trans-1,2-Dichloroethylene	61		"	50.0		122	72-132				
trans-1,3-Dichloropropylene	51		"	50.0		102	78-132				
Trichloroethylene	56		"	50.0		113	84-123				
Trichlorofluoromethane	52		"	50.0		103	62-140				
Vinyl Chloride	56		"	50.0		112	52-130				
Surrogate: 1,2-Dichloroethane-d4	52.8		"	50.0		106	77-125				
Surrogate: Toluene-d8	47.4		"	50.0		94.7	85-120				
Surrogate: p-Bromofluorobenzene	49.8		"	50.0		99.5	76-130				
LCS Dup (BD60061-BSD1)						Prepared & Analyzed: 04/01/2016					
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		101	75-129		2.42	30	
1,1,1-Trichloroethane	59		"	50.0		118	71-137		2.60	30	
1,1,2,2-Tetrachloroethane	50		"	50.0		99.5	79-129		3.08	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48		"	50.0		95.1	58-146		9.26	30	
1,1,2-Trichloroethane	49		"	50.0		97.4	83-123		4.20	30	
1,1-Dichloroethane	54		"	50.0		109	75-130		4.38	30	
1,1-Dichloroethylene	48		"	50.0		96.9	64-137		7.63	30	
1,2,3-Trichlorobenzene	45		"	50.0		89.6	81-140		7.42	30	
1,2,3-Trichloropropane	51		"	50.0		102	81-126		0.642	30	
1,2,4-Trichlorobenzene	44		"	50.0		87.2	80-141		7.76	30	
1,2,4-Trimethylbenzene	48		"	50.0		95.4	84-125		5.13	30	
1,2-Dibromo-3-chloropropane	50		"	50.0		99.3	74-142		1.11	30	
1,2-Dibromoethane	51		"	50.0		102	86-123		3.26	30	
1,2-Dichlorobenzene	48		"	50.0		96.7	85-122		2.25	30	
1,2-Dichloroethane	60		"	50.0		120	71-133		1.46	30	
1,2-Dichloropropane	48		"	50.0		95.2	81-122		7.83	30	
1,3,5-Trimethylbenzene	52		"	50.0		105	82-126		0.477	30	
1,3-Dichlorobenzene	50		"	50.0		100	84-124		1.09	30	
1,4-Dichlorobenzene	49		"	50.0		97.2	84-124		1.67	30	
1,4-Dioxane	1200		"	1000		116	10-228		4.00	30	
2-Butanone	57		"	50.0		114	58-147		12.7	30	
2-Hexanone	52		"	50.0		103	70-139		3.83	30	
4-Methyl-2-pentanone	48		"	50.0		96.2	72-132		0.187	30	
Acetone	48		"	50.0		95.3	36-155		8.89	30	
Acrolein	36		"	50.0		73.0	10-238		7.75	30	
Acrylonitrile	53		"	50.0		106	66-141		12.5	30	
Benzene	55		"	50.0		110	77-127		4.75	30	
Bromochloromethane	67		"	50.0		133	74-129	High Bias	6.41	30	
Bromodichloromethane	51		"	50.0		102	81-124		6.12	30	
Bromoform	51		"	50.0		102	80-136		0.711	30	
Bromomethane	43		"	50.0		85.7	32-177		4.48	30	
Carbon disulfide	48		"	50.0		96.5	10-136		10.3	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

Batch BD60061 - EPA 5035A

LCS Dup (BD60061-BSD1)

Prepared & Analyzed: 04/01/2016

Carbon tetrachloride	61		ug/L	50.0		122	66-143		0.753	30	
Chlorobenzene	51		"	50.0		101	86-120		2.00	30	
Chloroethane	47		"	50.0		95.0	51-142		7.95	30	
Chloroform	57		"	50.0		115	76-131		1.83	30	
Chloromethane	57		"	50.0		113	49-132		4.09	30	
cis-1,2-Dichloroethylene	56		"	50.0		112	74-132		2.35	30	
cis-1,3-Dichloropropylene	47		"	50.0		93.4	81-129		5.05	30	
Cyclohexane	54		"	50.0		108	70-130		7.13	30	
Dibromochloromethane	50		"	50.0		101	10-200		5.10	30	
Dibromomethane	50		"	50.0		101	83-124		3.73	30	
Dichlorodifluoromethane	64		"	50.0		129	28-158		2.83	30	
Ethyl Benzene	52		"	50.0		104	84-125		0.211	30	
Hexachlorobutadiene	49		"	50.0		98.0	83-133		11.8	30	
Isopropylbenzene	53		"	50.0		105	81-127		0.114	30	
Methyl acetate	41		"	50.0		81.1	41-143		5.31	30	
Methyl tert-butyl ether (MTBE)	54		"	50.0		108	74-131		2.26	30	
Methylcyclohexane	49		"	50.0		97.4	70-130		12.2	30	
Methylene chloride	46		"	50.0		91.4	57-141		14.1	30	
n-Butylbenzene	49		"	50.0		97.3	80-130		4.91	30	
n-Propylbenzene	51		"	50.0		102	74-136		5.07	30	
o-Xylene	50		"	50.0		101	83-123		5.44	30	
p- & m- Xylenes	100		"	100		104	82-128		0.688	30	
p-Isopropyltoluene	52		"	50.0		104	85-125		2.92	30	
sec-Butylbenzene	52		"	50.0		104	83-125		3.86	30	
Styrene	51		"	50.0		103	86-126		1.08	30	
tert-Butyl alcohol (TBA)	56		"	50.0		111	70-130		5.56	30	
tert-Butylbenzene	50		"	50.0		101	80-127		5.22	30	
Tetrachloroethylene	54		"	50.0		107	80-129		9.72	30	
Toluene	50		"	50.0		99.3	85-121		8.65	30	
trans-1,2-Dichloroethylene	57		"	50.0		114	72-132		6.80	30	
trans-1,3-Dichloropropylene	48		"	50.0		96.7	78-132		5.28	30	
Trichloroethylene	51		"	50.0		102	84-123		10.5	30	
Trichlorofluoromethane	47		"	50.0		94.0	62-140		9.25	30	
Vinyl Chloride	52		"	50.0		104	52-130		8.00	30	
Surrogate: 1,2-Dichloroethane-d4	54.3		"	50.0		109	77-125				
Surrogate: Toluene-d8	46.4		"	50.0		92.9	85-120				
Surrogate: p-Bromofluorobenzene	50.0		"	50.0		100	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BD60160 - EPA 5035A

Blank (BD60160-BLK1)

Prepared & Analyzed: 04/05/2016

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	"
n-Butylbenzene	ND	5.0	"



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

Batch BD60160 - EPA 5035A

Blank (BD60160-BLK1)

Prepared & Analyzed: 04/05/2016

n-Propylbenzene	ND	5.0	ug/kg wet
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>	<i>46.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>93.1</i>	<i>77-125</i>
<i>Surrogate: Toluene-d8</i>	<i>45.1</i>		<i>"</i>	<i>50.0</i>		<i>90.2</i>	<i>85-120</i>
<i>Surrogate: p-Bromofluorobenzene</i>	<i>46.3</i>		<i>"</i>	<i>50.0</i>		<i>92.6</i>	<i>76-130</i>

Blank (BD60160-BLK2)

Prepared & Analyzed: 04/05/2016

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	"



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

Batch BD60160 - EPA 5035A

Blank (BD60160-BLK2)

Prepared & Analyzed: 04/05/2016

Carbon disulfide	ND	5.0	ug/kg wet								
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	"								
n-Butylbenzene	ND	5.0	"								
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>	<i>50.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>101</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>45.6</i>		<i>"</i>	<i>50.0</i>		<i>91.2</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>47.9</i>		<i>"</i>	<i>50.0</i>		<i>95.8</i>	<i>76-130</i>				



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
Batch BD60160 - EPA 5035A											
LCS (BD60160-BS1)						Prepared & Analyzed: 04/05/2016					
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		102	75-129				
1,1,1-Trichloroethane	57		"	50.0		113	71-137				
1,1,2,2-Tetrachloroethane	48		"	50.0		96.8	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	59		"	50.0		118	58-146				
1,1,2-Trichloroethane	48		"	50.0		96.6	83-123				
1,1-Dichloroethane	56		"	50.0		113	75-130				
1,1-Dichloroethylene	58		"	50.0		117	64-137				
1,2,3-Trichlorobenzene	48		"	50.0		95.5	81-140				
1,2,3-Trichloropropane	49		"	50.0		97.4	81-126				
1,2,4-Trichlorobenzene	48		"	50.0		95.1	80-141				
1,2,4-Trimethylbenzene	49		"	50.0		97.6	84-125				
1,2-Dibromo-3-chloropropane	53		"	50.0		105	74-142				
1,2-Dibromoethane	49		"	50.0		98.6	86-123				
1,2-Dichlorobenzene	50		"	50.0		99.1	85-122				
1,2-Dichloroethane	62		"	50.0		125	71-133				
1,2-Dichloropropane	50		"	50.0		100	81-122				
1,3,5-Trimethylbenzene	48		"	50.0		95.0	82-126				
1,3-Dichlorobenzene	50		"	50.0		100	84-124				
1,4-Dichlorobenzene	48		"	50.0		96.5	84-124				
1,4-Dioxane	1100		"	1000		107	10-228				
2-Butanone	68		"	50.0		135	58-147				
2-Hexanone	57		"	50.0		113	70-139				
4-Methyl-2-pentanone	100		"	50.0		202	72-132	High Bias			
Acetone	75		"	50.0		151	36-155				
Acrolein	53		"	50.0		105	10-238				
Acrylonitrile	59		"	50.0		118	66-141				
Benzene	58		"	50.0		116	77-127				
Bromochloromethane	59		"	50.0		118	74-129				
Bromodichloromethane	50		"	50.0		99.8	81-124				
Bromoform	50		"	50.0		101	80-136				
Bromomethane	57		"	50.0		115	32-177				
Carbon disulfide	59		"	50.0		119	10-136				
Carbon tetrachloride	59		"	50.0		119	66-143				
Chlorobenzene	50		"	50.0		99.6	86-120				
Chloroethane	61		"	50.0		123	51-142				
Chloroform	57		"	50.0		114	76-131				
Chloromethane	57		"	50.0		114	49-132				
cis-1,2-Dichloroethylene	55		"	50.0		110	74-132				
cis-1,3-Dichloropropylene	50		"	50.0		101	81-129				
Cyclohexane	59		"	50.0		118	70-130				
Dibromochloromethane	53		"	50.0		106	10-200				
Dibromomethane	51		"	50.0		102	83-124				
Dichlorodifluoromethane	49		"	50.0		97.0	28-158				
Ethyl Benzene	48		"	50.0		96.7	84-125				
Hexachlorobutadiene	48		"	50.0		96.7	83-133				
Isopropylbenzene	49		"	50.0		97.7	81-127				
Methyl acetate	59		"	50.0		118	41-143				
Methyl tert-butyl ether (MTBE)	58		"	50.0		115	74-131				
Methylcyclohexane	48		"	50.0		96.3	70-130				
Methylene chloride	57		"	50.0		114	57-141				
n-Butylbenzene	48		"	50.0		95.1	80-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60160 - EPA 5035A											
LCS (BD60160-BS1)						Prepared & Analyzed: 04/05/2016					
n-Propylbenzene	49		ug/L	50.0		98.7	74-136				
o-Xylene	49		"	50.0		98.9	83-123				
p- & m- Xylenes	97		"	100		96.6	82-128				
p-Isopropyltoluene	50		"	50.0		99.1	85-125				
sec-Butylbenzene	50		"	50.0		100	83-125				
Styrene	49		"	50.0		97.5	86-126				
tert-Butyl alcohol (TBA)	0.0		"	50.0			70-130	Low Bias			
tert-Butylbenzene	48		"	50.0		95.1	80-127				
Tetrachloroethylene	49		"	50.0		98.3	80-129				
Toluene	47		"	50.0		94.7	85-121				
trans-1,2-Dichloroethylene	58		"	50.0		116	72-132				
trans-1,3-Dichloropropylene	50		"	50.0		99.8	78-132				
Trichloroethylene	49		"	50.0		98.3	84-123				
Trichlorofluoromethane	53		"	50.0		105	62-140				
Vinyl Chloride	59		"	50.0		117	52-130				
Surrogate: 1,2-Dichloroethane-d4	50.5		"	50.0		101	77-125				
Surrogate: Toluene-d8	44.7		"	50.0		89.5	85-120				
Surrogate: p-Bromofluorobenzene	48.4		"	50.0		96.8	76-130				
LCS Dup (BD60160-BSD1)						Prepared & Analyzed: 04/05/2016					
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		105	75-129		2.41	30	
1,1,1-Trichloroethane	56		"	50.0		112	71-137		1.65	30	
1,1,2,2-Tetrachloroethane	49		"	50.0		98.8	79-129		2.09	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	58		"	50.0		116	58-146		1.52	30	
1,1,2-Trichloroethane	50		"	50.0		100	83-123		3.80	30	
1,1-Dichloroethane	58		"	50.0		115	75-130		1.97	30	
1,1-Dichloroethylene	58		"	50.0		115	64-137		1.17	30	
1,2,3-Trichlorobenzene	48		"	50.0		95.9	81-140		0.439	30	
1,2,3-Trichloropropane	49		"	50.0		98.4	81-126		0.980	30	
1,2,4-Trichlorobenzene	47		"	50.0		94.5	80-141		0.675	30	
1,2,4-Trimethylbenzene	47		"	50.0		94.2	84-125		3.59	30	
1,2-Dibromo-3-chloropropane	51		"	50.0		101	74-142		4.16	30	
1,2-Dibromoethane	50		"	50.0		99.8	86-123		1.25	30	
1,2-Dichlorobenzene	49		"	50.0		98.0	85-122		1.12	30	
1,2-Dichloroethane	61		"	50.0		121	71-133		3.06	30	
1,2-Dichloropropane	51		"	50.0		102	81-122		1.11	30	
1,3,5-Trimethylbenzene	45		"	50.0		90.7	82-126		4.61	30	
1,3-Dichlorobenzene	49		"	50.0		98.6	84-124		1.41	30	
1,4-Dichlorobenzene	49		"	50.0		97.3	84-124		0.888	30	
1,4-Dioxane	1100		"	1000		110	10-228		2.58	30	
2-Butanone	59		"	50.0		118	58-147		13.1	30	
2-Hexanone	49		"	50.0		98.1	70-139		14.3	30	
4-Methyl-2-pentanone	85		"	50.0		169	72-132	High Bias	17.8	30	
Acetone	39		"	50.0		78.5	36-155		63.1	30	Non-dir.
Acrolein	66		"	50.0		133	10-238		23.4	30	
Acrylonitrile	62		"	50.0		123	66-141		4.40	30	
Benzene	60		"	50.0		120	77-127		3.60	30	
Bromochloromethane	57		"	50.0		114	74-129		3.51	30	
Bromodichloromethane	50		"	50.0		99.1	81-124		0.724	30	
Bromoform	49		"	50.0		98.7	80-136		1.99	30	
Bromomethane	59		"	50.0		117	32-177		1.88	30	
Carbon disulfide	56		"	50.0		113	10-136		5.20	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

Batch BD60160 - EPA 5035A

LCS Dup (BD60160-BSD1)

Prepared & Analyzed: 04/05/2016

Carbon tetrachloride	58		ug/L	50.0		116	66-143		2.47	30	
Chlorobenzene	50		"	50.0		100	86-120		0.600	30	
Chloroethane	60		"	50.0		121	51-142		1.84	30	
Chloroform	58		"	50.0		116	76-131		1.97	30	
Chloromethane	57		"	50.0		115	49-132		0.893	30	
cis-1,2-Dichloroethylene	55		"	50.0		111	74-132		0.542	30	
cis-1,3-Dichloropropylene	51		"	50.0		101	81-129		0.615	30	
Cyclohexane	58		"	50.0		115	70-130		2.10	30	
Dibromochloromethane	53		"	50.0		105	10-200		0.664	30	
Dibromomethane	51		"	50.0		103	83-124		0.781	30	
Dichlorodifluoromethane	48		"	50.0		96.9	28-158		0.0825	30	
Ethyl Benzene	49		"	50.0		97.1	84-125		0.454	30	
Hexachlorobutadiene	49		"	50.0		98.4	83-133		1.72	30	
Isopropylbenzene	49		"	50.0		98.4	81-127		0.673	30	
Methyl acetate	61		"	50.0		122	41-143		3.23	30	
Methyl tert-butyl ether (MTBE)	58		"	50.0		117	74-131		1.24	30	
Methylcyclohexane	48		"	50.0		96.1	70-130		0.270	30	
Methylene chloride	56		"	50.0		113	57-141		1.23	30	
n-Butylbenzene	46		"	50.0		92.6	80-130		2.62	30	
n-Propylbenzene	48		"	50.0		96.8	74-136		2.01	30	
o-Xylene	49		"	50.0		98.3	83-123		0.568	30	
p- & m- Xylenes	96		"	100		95.8	82-128		0.842	30	
p-Isopropyltoluene	49		"	50.0		97.9	85-125		1.26	30	
sec-Butylbenzene	49		"	50.0		98.5	83-125		1.51	30	
Styrene	49		"	50.0		97.8	86-126		0.307	30	
tert-Butyl alcohol (TBA)	0.0		"	50.0			70-130	Low Bias		30	
tert-Butylbenzene	48		"	50.0		95.8	80-127		0.712	30	
Tetrachloroethylene	46		"	50.0		91.9	80-129		6.71	30	
Toluene	47		"	50.0		94.5	85-121		0.190	30	
trans-1,2-Dichloroethylene	58		"	50.0		117	72-132		0.395	30	
trans-1,3-Dichloropropylene	49		"	50.0		98.6	78-132		1.29	30	
Trichloroethylene	48		"	50.0		96.5	84-123		1.79	30	
Trichlorofluoromethane	56		"	50.0		113	62-140		6.77	30	
Vinyl Chloride	60		"	50.0		119	52-130		1.45	30	
Surrogate: 1,2-Dichloroethane-d4	51.2		"	50.0		102	77-125				
Surrogate: Toluene-d8	44.9		"	50.0		89.9	85-120				
Surrogate: p-Bromofluorobenzene	47.3		"	50.0		94.7	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BD60202 - EPA 5030B/1311

Blank (BD60202-BLK1)

Prepared & Analyzed: 04/05/2016

1,1-Dichloroethylene	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
2-Butanone	ND	5.0	"
Benzene	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroform	ND	5.0	"
Tetrachloroethylene	ND	5.0	"
Trichloroethylene	ND	5.0	"
Vinyl Chloride	ND	5.0	"

Surrogate: 1,2-Dichloroethane-d4	46.6	"	50.0	93.1	65-135
Surrogate: p-Bromofluorobenzene	46.3	"	50.0	92.6	81-114
Surrogate: Toluene-d8	45.1	"	50.0	90.2	86-118

LCS (BD60202-BS1)

Prepared & Analyzed: 04/05/2016

1,1-Dichloroethylene	58	ug/L	50.0	117	68-134
1,2-Dichloroethane	62	"	50.0	125	69-133
1,4-Dichlorobenzene	48	"	50.0	96.5	82-124
2-Butanone	68	"	50.0	135	44-169
Benzene	58	"	50.0	116	72-134
Carbon tetrachloride	59	"	50.0	119	62-145
Chlorobenzene	50	"	50.0	99.6	85-119
Chloroform	57	"	50.0	114	74-131
Tetrachloroethylene	49	"	50.0	98.3	78-133
Trichloroethylene	49	"	50.0	98.3	81-125
Vinyl Chloride	59	"	50.0	117	42-136

Surrogate: 1,2-Dichloroethane-d4	50.5	"	50.0	101	65-135
Surrogate: p-Bromofluorobenzene	48.4	"	50.0	96.8	81-114
Surrogate: Toluene-d8	44.7	"	50.0	89.5	86-118



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

Batch BD60202 - EPA 5030B/1311

LCS Dup (BD60202-BSD1)

Prepared & Analyzed: 04/05/2016

1,1-Dichloroethylene	58		ug/L	50.0		115	68-134		1.17	30
1,2-Dichloroethane	61		"	50.0		121	69-133		3.06	30
1,4-Dichlorobenzene	49		"	50.0		97.3	82-124		0.888	30
2-Butanone	59		"	50.0		118	44-169		13.1	30
Benzene	60		"	50.0		120	72-134		3.60	30
Carbon tetrachloride	58		"	50.0		116	62-145		2.47	30
Chlorobenzene	50		"	50.0		100	85-119		0.600	30
Chloroform	58		"	50.0		116	74-131		1.97	30
Tetrachloroethylene	46		"	50.0		91.9	78-133		6.71	30
Trichloroethylene	48		"	50.0		96.5	81-125		1.79	30
Vinyl Chloride	60		"	50.0		119	42-136		1.45	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>51.2</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>65-135</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>47.3</i>		<i>"</i>	<i>50.0</i>		<i>94.7</i>	<i>81-114</i>			
<i>Surrogate: Toluene-d8</i>	<i>44.9</i>		<i>"</i>	<i>50.0</i>		<i>89.9</i>	<i>86-118</i>			

Batch BD60221 - EPA 5035A

Blank (BD60221-BLK1)

Prepared & Analyzed: 04/06/2016

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	"



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

Batch BD60221 - EPA 5035A

Blank (BD60221-BLK1)

Prepared & Analyzed: 04/06/2016

Chloroethane	ND	5.0	ug/kg wet								
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	"								
n-Butylbenzene	ND	5.0	"								
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	10	"								
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	52.0		ug/L	50.0		104	77-125				
Surrogate: Toluene-d8	48.8		"	50.0		97.5	85-120				
Surrogate: p-Bromofluorobenzene	47.3		"	50.0		94.6	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60221 - EPA 5035A											
LCS (BD60221-BS1)						Prepared & Analyzed: 04/06/2016					
1,1,1,2-Tetrachloroethane	57		ug/L	50.0		114	75-129				
1,1,1-Trichloroethane	60		"	50.0		121	71-137				
1,1,2,2-Tetrachloroethane	53		"	50.0		105	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	56		"	50.0		112	58-146				
1,1,2-Trichloroethane	51		"	50.0		101	83-123				
1,1-Dichloroethane	57		"	50.0		114	75-130				
1,1-Dichloroethylene	55		"	50.0		111	64-137				
1,2,3-Trichlorobenzene	60		"	50.0		120	81-140				
1,2,3-Trichloropropane	54		"	50.0		109	81-126				
1,2,4-Trichlorobenzene	62		"	50.0		124	80-141				
1,2,4-Trimethylbenzene	54		"	50.0		109	84-125				
1,2-Dibromo-3-chloropropane	52		"	50.0		104	74-142				
1,2-Dibromoethane	56		"	50.0		112	86-123				
1,2-Dichlorobenzene	56		"	50.0		112	85-122				
1,2-Dichloroethane	57		"	50.0		113	71-133				
1,2-Dichloropropane	52		"	50.0		103	81-122				
1,3,5-Trimethylbenzene	54		"	50.0		108	82-126				
1,3-Dichlorobenzene	58		"	50.0		116	84-124				
1,4-Dichlorobenzene	57		"	50.0		114	84-124				
1,4-Dioxane	1000		"	1000		103	10-228				
2-Butanone	55		"	50.0		109	58-147				
2-Hexanone	47		"	50.0		94.1	70-139				
4-Methyl-2-pentanone	46		"	50.0		91.1	72-132				
Acetone	57		"	50.0		114	36-155				
Acrolein	76		"	50.0		151	10-238				
Acrylonitrile	55		"	50.0		110	66-141				
Benzene	54		"	50.0		109	77-127				
Bromochloromethane	51		"	50.0		102	74-129				
Bromodichloromethane	53		"	50.0		107	81-124				
Bromoform	57		"	50.0		114	80-136				
Bromomethane	54		"	50.0		107	32-177				
Carbon disulfide	50		"	50.0		101	10-136				
Carbon tetrachloride	61		"	50.0		122	66-143				
Chlorobenzene	57		"	50.0		114	86-120				
Chloroethane	53		"	50.0		106	51-142				
Chloroform	57		"	50.0		114	76-131				
Chloromethane	48		"	50.0		96.7	49-132				
cis-1,2-Dichloroethylene	57		"	50.0		114	74-132				
cis-1,3-Dichloropropylene	53		"	50.0		107	81-129				
Cyclohexane	52		"	50.0		103	70-130				
Dibromochloromethane	56		"	50.0		112	10-200				
Dibromomethane	54		"	50.0		108	83-124				
Dichlorodifluoromethane	52		"	50.0		104	28-158				
Ethyl Benzene	52		"	50.0		104	84-125				
Hexachlorobutadiene	62		"	50.0		123	83-133				
Isopropylbenzene	55		"	50.0		110	81-127				
Methyl acetate	51		"	50.0		103	41-143				
Methyl tert-butyl ether (MTBE)	56		"	50.0		111	74-131				
Methylcyclohexane	51		"	50.0		102	70-130				
Methylene chloride	48		"	50.0		96.9	57-141				
n-Butylbenzene	54		"	50.0		107	80-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60221 - EPA 5035A											
LCS (BD60221-BS1)						Prepared & Analyzed: 04/06/2016					
n-Propylbenzene	54		ug/L	50.0		109	74-136				
o-Xylene	53		"	50.0		106	83-123				
p- & m- Xylenes	100		"	100		101	82-128				
p-Isopropyltoluene	55		"	50.0		109	85-125				
sec-Butylbenzene	55		"	50.0		110	83-125				
Styrene	54		"	50.0		108	86-126				
tert-Butyl alcohol (TBA)	55		"	50.0		111	70-130				
tert-Butylbenzene	58		"	50.0		116	80-127				
Tetrachloroethylene	55		"	50.0		110	80-129				
Toluene	53		"	50.0		106	85-121				
trans-1,2-Dichloroethylene	56		"	50.0		112	72-132				
trans-1,3-Dichloropropylene	54		"	50.0		108	78-132				
Trichloroethylene	56		"	50.0		112	84-123				
Trichlorofluoromethane	60		"	50.0		119	62-140				
Vinyl Chloride	52		"	50.0		105	52-130				
Surrogate: 1,2-Dichloroethane-d4	51.7		"	50.0		103	77-125				
Surrogate: Toluene-d8	46.7		"	50.0		93.5	85-120				
Surrogate: p-Bromofluorobenzene	53.1		"	50.0		106	76-130				
LCS Dup (BD60221-BSD1)						Prepared & Analyzed: 04/06/2016					
1,1,1,2-Tetrachloroethane	56		ug/L	50.0		112	75-129		1.48	30	
1,1,1-Trichloroethane	62		"	50.0		123	71-137		2.28	30	
1,1,2,2-Tetrachloroethane	51		"	50.0		103	79-129		2.60	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		109	58-146		2.82	30	
1,1,2-Trichloroethane	50		"	50.0		99.0	83-123		2.28	30	
1,1-Dichloroethane	57		"	50.0		114	75-130		0.368	30	
1,1-Dichloroethylene	56		"	50.0		112	64-137		1.51	30	
1,2,3-Trichlorobenzene	58		"	50.0		117	81-140		2.54	30	
1,2,3-Trichloropropane	54		"	50.0		107	81-126		1.28	30	
1,2,4-Trichlorobenzene	61		"	50.0		123	80-141		1.38	30	
1,2,4-Trimethylbenzene	53		"	50.0		106	84-125		2.72	30	
1,2-Dibromo-3-chloropropane	55		"	50.0		110	74-142		5.31	30	
1,2-Dibromoethane	54		"	50.0		107	86-123		4.48	30	
1,2-Dichlorobenzene	55		"	50.0		111	85-122		0.682	30	
1,2-Dichloroethane	58		"	50.0		117	71-133		3.00	30	
1,2-Dichloropropane	51		"	50.0		101	81-122		2.21	30	
1,3,5-Trimethylbenzene	53		"	50.0		106	82-126		1.50	30	
1,3-Dichlorobenzene	57		"	50.0		114	84-124		1.66	30	
1,4-Dichlorobenzene	56		"	50.0		112	84-124		1.65	30	
1,4-Dioxane	900		"	1000		90.2	10-228		13.4	30	
2-Butanone	48		"	50.0		95.1	58-147		14.0	30	
2-Hexanone	42		"	50.0		83.2	70-139		12.3	30	
4-Methyl-2-pentanone	41		"	50.0		81.2	72-132		11.5	30	
Acetone	48		"	50.0		96.5	36-155		17.0	30	
Acrolein	70		"	50.0		139	10-238		8.45	30	
Acrylonitrile	50		"	50.0		99.8	66-141		9.56	30	
Benzene	57		"	50.0		114	77-127		4.94	30	
Bromochloromethane	53		"	50.0		107	74-129		5.12	30	
Bromodichloromethane	51		"	50.0		103	81-124		3.81	30	
Bromoform	55		"	50.0		111	80-136		2.77	30	
Bromomethane	52		"	50.0		105	32-177		2.34	30	
Carbon disulfide	51		"	50.0		102	10-136		0.692	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

Batch BD60221 - EPA 5035A

LCS Dup (BD60221-BSD1)

Prepared & Analyzed: 04/06/2016

Carbon tetrachloride	61		ug/L	50.0		122	66-143		0.263	30	
Chlorobenzene	56		"	50.0		112	86-120		0.903	30	
Chloroethane	54		"	50.0		108	51-142		2.11	30	
Chloroform	57		"	50.0		115	76-131		0.683	30	
Chloromethane	48		"	50.0		96.3	49-132		0.373	30	
cis-1,2-Dichloroethylene	58		"	50.0		116	74-132		1.83	30	
cis-1,3-Dichloropropylene	53		"	50.0		106	81-129		0.640	30	
Cyclohexane	50		"	50.0		99.5	70-130		3.57	30	
Dibromochloromethane	54		"	50.0		109	10-200		2.72	30	
Dibromomethane	53		"	50.0		106	83-124		2.01	30	
Dichlorodifluoromethane	47		"	50.0		94.8	28-158		9.60	30	
Ethyl Benzene	52		"	50.0		103	84-125		0.811	30	
Hexachlorobutadiene	60		"	50.0		120	83-133		2.44	30	
Isopropylbenzene	55		"	50.0		110	81-127		0.436	30	
Methyl acetate	48		"	50.0		96.1	41-143		6.58	30	
Methyl tert-butyl ether (MTBE)	57		"	50.0		113	74-131		1.85	30	
Methylcyclohexane	49		"	50.0		97.3	70-130		4.29	30	
Methylene chloride	48		"	50.0		96.5	57-141		0.393	30	
n-Butylbenzene	52		"	50.0		103	80-130		3.53	30	
n-Propylbenzene	52		"	50.0		103	74-136		4.97	30	
o-Xylene	52		"	50.0		103	83-123		2.96	30	
p- & m- Xylenes	100		"	100		101	82-128		0.0494	30	
p-Isopropyltoluene	53		"	50.0		106	85-125		2.82	30	
sec-Butylbenzene	54		"	50.0		108	83-125		1.43	30	
Styrene	53		"	50.0		107	86-126		1.62	30	
tert-Butyl alcohol (TBA)	51		"	50.0		101	70-130		8.85	30	
tert-Butylbenzene	58		"	50.0		115	80-127		0.485	30	
Tetrachloroethylene	52		"	50.0		105	80-129		4.60	30	
Toluene	51		"	50.0		102	85-121		4.06	30	
trans-1,2-Dichloroethylene	55		"	50.0		111	72-132		1.27	30	
trans-1,3-Dichloropropylene	53		"	50.0		107	78-132		0.709	30	
Trichloroethylene	53		"	50.0		106	84-123		5.51	30	
Trichlorofluoromethane	58		"	50.0		117	62-140		2.32	30	
Vinyl Chloride	51		"	50.0		103	52-130		1.89	30	
Surrogate: 1,2-Dichloroethane-d4	51.2		"	50.0		102	77-125				
Surrogate: Toluene-d8	46.7		"	50.0		93.4	85-120				
Surrogate: p-Bromofluorobenzene	53.9		"	50.0		108	76-130				



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

Batch BD60017 - EPA 3550C

Blank (BD60017-BLK1)

Prepared & Analyzed: 04/01/2016

1,1'-Biphenyl	ND	41.7	ug/kg wet
1,2,4,5-Tetrachlorobenzene	ND	83.3	"
1,2,4-Trichlorobenzene	ND	41.7	"
1,2-Dichlorobenzene	ND	41.7	"
1,2-Diphenylhydrazine (as Azobenzene)	ND	41.7	"
1,3-Dichlorobenzene	ND	41.7	"
1,4-Dichlorobenzene	ND	41.7	"
2,3,4,6-Tetrachlorophenol	ND	83.3	"
2,4,5-Trichlorophenol	ND	41.7	"
2,4,6-Trichlorophenol	ND	41.7	"
2,4-Dichlorophenol	ND	41.7	"
2,4-Dimethylphenol	ND	41.7	"
2,4-Dinitrophenol	ND	83.3	"
2,4-Dinitrotoluene	ND	41.7	"
2,6-Dinitrotoluene	574	41.7	"
2-Chloronaphthalene	ND	41.7	"
2-Chlorophenol	ND	41.7	"
2-Methylnaphthalene	ND	41.7	"
2-Methylphenol	ND	41.7	"
2-Nitroaniline	ND	83.3	"
2-Nitrophenol	ND	41.7	"
3- & 4-Methylphenols	ND	41.7	"
3,3'-Dichlorobenzidine	ND	41.7	"
3-Nitroaniline	ND	83.3	"
4,6-Dinitro-2-methylphenol	ND	83.3	"
4-Bromophenyl phenyl ether	32.0	41.7	"
4-Chloro-3-methylphenol	ND	41.7	"
4-Chloroaniline	ND	41.7	"
4-Chlorophenyl phenyl ether	ND	41.7	"
4-Nitroaniline	ND	83.3	"
4-Nitrophenol	ND	83.3	"
Acenaphthene	ND	41.7	"
Acenaphthylene	ND	41.7	"
Acetophenone	ND	41.7	"
Aniline	ND	167	"
Anthracene	ND	41.7	"
Atrazine	ND	41.7	"
Benzaldehyde	ND	41.7	"
Benzidine	ND	167	"
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	"
Benzoic acid	142	41.7	"
Benzyl alcohol	ND	41.7	"
Benzyl butyl phthalate	ND	41.7	"
Bis(2-chloroethoxy)methane	ND	41.7	"
Bis(2-chloroethyl)ether	ND	41.7	"
Bis(2-chloroisopropyl)ether	27.3	41.7	"
Bis(2-ethylhexyl)phthalate	26.3	41.7	"



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

Batch BD60017 - EPA 3550C

Blank (BD60017-BLK1)

Prepared & Analyzed: 04/01/2016

Caprolactam	53.0	83.3	ug/kg wet								
Carbazole	ND	41.7	"								
Chrysene	ND	41.7	"								
Dibenzo(a,h)anthracene	ND	41.7	"								
Dibenzofuran	ND	41.7	"								
Diethyl phthalate	ND	41.7	"								
Dimethyl phthalate	165	41.7	"								
Di-n-butyl phthalate	ND	41.7	"								
Di-n-octyl phthalate	ND	41.7	"								
Fluoranthene	ND	41.7	"								
Fluorene	ND	41.7	"								
Hexachlorobenzene	25.7	41.7	"								
Hexachlorobutadiene	ND	41.7	"								
Hexachlorocyclopentadiene	ND	41.7	"								
Hexachloroethane	ND	41.7	"								
Indeno(1,2,3-cd)pyrene	ND	41.7	"								
Isophorone	ND	41.7	"								
Naphthalene	ND	41.7	"								
Nitrobenzene	ND	41.7	"								
N-Nitrosodimethylamine	ND	41.7	"								
N-nitroso-di-n-propylamine	ND	41.7	"								
N-Nitrosodiphenylamine	ND	41.7	"								
Pentachlorophenol	ND	41.7	"								
Phenanthrene	ND	41.7	"								
Phenol	ND	41.7	"								
Pyrene	ND	41.7	"								
Surrogate: 2-Fluorophenol	279		"	2510		11.1	20-108				
Surrogate: Phenol-d5	946		"	2500		37.8	23-114				
Surrogate: Nitrobenzene-d5	702		"	1670		42.0	22-108				
Surrogate: 2-Fluorobiphenyl	657		"	1670		39.3	21-113				
Surrogate: 2,4,6-Tribromophenol	982		"	2510		39.2	19-110				
Surrogate: Terphenyl-d14	600		"	1670		36.0	24-116				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60017 - EPA 3550C											
LCS (BD60017-BS1)						Prepared & Analyzed: 04/01/2016					
1,1'-Biphenyl	724	41.7	ug/kg wet				22-103				
1,2,4,5-Tetrachlorobenzene	879	83.3	"	1670		52.7	10-144				
1,2,4-Trichlorobenzene	783	41.7	"	1670		47.0	23-130				
1,2-Dichlorobenzene	728	41.7	"	1670		43.7	26-113				
1,2-Diphenylhydrazine (as Azobenzene)	900	41.7	"	1670		54.0	10-140				
1,3-Dichlorobenzene	727	41.7	"	1670		43.6	32-113				
1,4-Dichlorobenzene	689	41.7	"	1670		41.3	28-111				
2,3,4,6-Tetrachlorophenol	653	83.3	"	1670		39.2	30-130				
2,4,5-Trichlorophenol	709	41.7	"	1670		42.6	14-138				
2,4,6-Trichlorophenol	795	41.7	"	1670		47.7	27-122				
2,4-Dichlorophenol	822	41.7	"	1670		49.3	23-133				
2,4-Dimethylphenol	829	41.7	"	1670		49.7	15-131				
2,4-Dinitrophenol	303	83.3	"	1670		18.2	10-149				
2,4-Dinitrotoluene	918	41.7	"	1670		55.1	30-123				
2,6-Dinitrotoluene	893	41.7	"	1670		53.6	30-125				
2-Chloronaphthalene	754	41.7	"	1670		45.2	22-115				
2-Chlorophenol	790	41.7	"	1670		47.4	25-121				
2-Methylnaphthalene	844	41.7	"	1670		50.6	16-127				
2-Methylphenol	704	41.7	"	1670		42.2	10-146				
2-Nitroaniline	859	83.3	"	1670		51.5	24-126				
2-Nitrophenol	871	41.7	"	1670		52.3	17-129				
3- & 4-Methylphenols	ND	41.7	"	1670			20-109	Low Bias			
3,3'-Dichlorobenzidine	1010	41.7	"	1670		60.7	10-147				
3-Nitroaniline	776	83.3	"	1670		46.5	23-123				
4,6-Dinitro-2-methylphenol	443	83.3	"	1670		26.6	10-149				
4-Bromophenyl phenyl ether	821	41.7	"	1670		49.2	30-138				
4-Chloro-3-methylphenol	923	41.7	"	1670		55.4	16-138				
4-Chloroaniline	710	41.7	"	1670		42.6	10-117				
4-Chlorophenyl phenyl ether	766	41.7	"	1670		45.9	18-132				
4-Nitroaniline	843	83.3	"	1670		50.6	14-125				
4-Nitrophenol	ND	83.3	"	1670			10-136	Low Bias			
Acenaphthene	794	41.7	"	1670		47.6	17-124				
Acenaphthylene	738	41.7	"	1670		44.3	16-124				
Acetophenone	765	41.7	"	3330		22.9	28-105	Low Bias			
Aniline	599	167	"	1670		35.9	10-111				
Anthracene	814	41.7	"	1670		48.8	24-124				
Atrazine	900	41.7	"	3330		27.0	22-120				
Benzaldehyde	764	41.7	"	3330		22.9	21-100				
Benzo(a)anthracene	801	41.7	"	1670		48.1	25-134				
Benzo(a)pyrene	711	41.7	"	1670		42.6	29-144				
Benzo(b)fluoranthene	663	41.7	"	1670		39.8	20-151				
Benzo(g,h,i)perylene	428	41.7	"	1670		25.7	10-153				
Benzo(k)fluoranthene	669	41.7	"	1670		40.2	10-148				
Benzoic acid	630	41.7	"	1670		37.8	10-116				
Benzyl alcohol	798	41.7	"	1670		47.9	17-128				
Benzyl butyl phthalate	846	41.7	"	1670		50.7	10-132				
Bis(2-chloroethoxy)methane	848	41.7	"	1670		50.9	10-129				
Bis(2-chloroethyl)ether	759	41.7	"	1670		45.6	14-125				
Bis(2-chloroisopropyl)ether	901	41.7	"	1670		54.1	14-122				
Bis(2-ethylhexyl)phthalate	842	41.7	"	1670		50.5	10-141				
Caprolactam	70.0	83.3	"	3330		2.10	10-123	Low Bias			



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

Batch BD60017 - EPA 3550C

LCS (BD60017-BS1)

Prepared & Analyzed: 04/01/2016

Carbazole	899	41.7	ug/kg wet	1670		53.9	31-120				
Chrysene	775	41.7	"	1670		46.5	24-116				
Dibenzo(a,h)anthracene	588	41.7	"	1670		35.3	17-147				
Dibenzofuran	776	41.7	"	1670		46.5	23-123				
Diethyl phthalate	774	41.7	"	1670		46.4	23-122				
Dimethyl phthalate	803	41.7	"	1670		48.2	28-127				
Di-n-butyl phthalate	823	41.7	"	1670		49.4	19-123				
Di-n-octyl phthalate	783	41.7	"	1670		47.0	10-132				
Fluoranthene	825	41.7	"	1670		49.5	36-125				
Fluorene	790	41.7	"	1670		47.4	16-130				
Hexachlorobenzene	868	41.7	"	1670		52.1	10-129				
Hexachlorobutadiene	833	41.7	"	1670		50.0	22-153				
Hexachlorocyclopentadiene	173	41.7	"	1670		10.4	10-134				
Hexachloroethane	747	41.7	"	1670		44.8	20-112				
Indeno(1,2,3-cd)pyrene	530	41.7	"	1670		31.8	10-155				
Isophorone	838	41.7	"	1670		50.3	14-131				
Naphthalene	771	41.7	"	1670		46.3	20-121				
Nitrobenzene	848	41.7	"	1670		50.9	20-121				
N-Nitrosodimethylamine	311	41.7	"	1670		18.7	10-124				
N-nitroso-di-n-propylamine	924	41.7	"	1670		55.4	21-119				
N-Nitrosodiphenylamine	938	41.7	"	1670		56.3	10-163				
Pentachlorophenol	519	41.7	"	1670		31.1	10-143				
Phenanthrene	824	41.7	"	1670		49.5	24-123				
Phenol	29.3	41.7	"	1670		1.76	15-123	Low Bias			
Pyrene	787	41.7	"	1670		47.2	24-132				
<i>Surrogate: 2-Fluorophenol</i>	<i>1180</i>		<i>"</i>	<i>2510</i>		<i>47.2</i>	<i>20-108</i>				
<i>Surrogate: Phenol-d5</i>	<i>1200</i>		<i>"</i>	<i>2500</i>		<i>48.0</i>	<i>23-114</i>				
<i>Surrogate: Nitrobenzene-d5</i>	<i>918</i>		<i>"</i>	<i>1670</i>		<i>54.9</i>	<i>22-108</i>				
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>761</i>		<i>"</i>	<i>1670</i>		<i>45.5</i>	<i>21-113</i>				
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>1380</i>		<i>"</i>	<i>2510</i>		<i>55.1</i>	<i>30-130</i>				
<i>Surrogate: Terphenyl-d14</i>	<i>649</i>		<i>"</i>	<i>1670</i>		<i>38.9</i>	<i>24-116</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

Batch BD60113 - EPA 3510C/1311

Blank (BD60113-BLK1)

Prepared & Analyzed: 04/04/2016

1,4-Dichlorobenzene	ND	10.0	ug/L
2,4,5-Trichlorophenol	ND	10.0	"
2,4,6-Trichlorophenol	ND	10.0	"
2,4-Dinitrotoluene	ND	10.0	"
2-Methylphenol	ND	10.0	"
3- & 4-Methylphenols	ND	20.0	"
Cresols, total	ND	30.0	"
Hexachlorobenzene	ND	10.0	"
Hexachlorobutadiene	ND	10.0	"
Hexachloroethane	ND	10.0	"
Nitrobenzene	ND	10.0	"
Pentachlorophenol	ND	10.0	"
Pyridine	ND	10.0	"

Surrogate: 2-Fluorophenol	50.2	"	150	33.4	10-65
Surrogate: Phenol-d5	35.4	"	150	23.6	10-49
Surrogate: Nitrobenzene-d5	80.8	"	100	80.5	10-96
Surrogate: 2-Fluorobiphenyl	71.9	"	100	71.6	10-93
Surrogate: 2,4,6-Tribromophenol	134	"	150	89.0	10-128
Surrogate: Terphenyl-d14	71.5	"	100	71.5	10-100

LCS (BD60113-BS1)

Prepared & Analyzed: 04/04/2016

1,4-Dichlorobenzene	66.3	10.0	ug/L	100	66.3	42-82
2,4,5-Trichlorophenol	75.8	10.0	"	100	75.8	36-112
2,4,6-Trichlorophenol	79.1	10.0	"	100	79.1	41-107
2,4-Dinitrotoluene	89.0	10.0	"	100	89.0	41-114
2-Methylphenol	51.9	10.0	"	100	51.9	10-90
3- & 4-Methylphenols	45.2	20.0	"	100	45.2	10-101
Cresols, total	97.0	30.0	"	200	48.5	30-130
Hexachlorobenzene	84.8	10.0	"	100	84.8	27-120
Hexachlorobutadiene	77.4	10.0	"	100	77.4	25-106
Hexachloroethane	73.8	10.0	"	100	73.8	33-84
Nitrobenzene	76.1	10.0	"	100	76.1	32-113
Pentachlorophenol	66.4	10.0	"	100	66.4	19-127
Pyridine	31.0	10.0	"	100	31.0	10-46

Surrogate: 2-Fluorophenol	57.0	"	150	37.9	10-65
Surrogate: Phenol-d5	39.6	"	150	26.4	10-49
Surrogate: Nitrobenzene-d5	87.4	"	100	87.1	10-96
Surrogate: 2-Fluorobiphenyl	75.9	"	100	75.6	10-93
Surrogate: 2,4,6-Tribromophenol	144	"	150	95.9	10-128
Surrogate: Terphenyl-d14	70.3	"	100	70.3	10-100



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

Batch BD60113 - EPA 3510C/1311

LCS Dup (BD60113-BSD1)

Prepared & Analyzed: 04/04/2016

1,4-Dichlorobenzene	60.7	10.0	ug/L	100		60.7	42-82		8.82	20
2,4,5-Trichlorophenol	70.2	10.0	"	100		70.2	36-112		7.67	20
2,4,6-Trichlorophenol	72.0	10.0	"	100		72.0	41-107		9.42	20
2,4-Dinitrotoluene	80.8	10.0	"	100		80.8	41-114		9.73	20
2-Methylphenol	44.8	10.0	"	100		44.8	10-90		14.7	20
3- & 4-Methylphenols	39.9	20.0	"	100		39.9	10-101		12.4	20
Cresols, total	84.6	30.0	"	200		42.3	30-130		13.7	20
Hexachlorobenzene	74.9	10.0	"	100		74.9	27-120		12.4	20
Hexachlorobutadiene	73.6	10.0	"	100		73.6	25-106		5.01	20
Hexachloroethane	67.0	10.0	"	100		67.0	33-84		9.63	20
Nitrobenzene	69.1	10.0	"	100		69.1	32-113		9.70	20
Pentachlorophenol	59.7	10.0	"	100		59.7	19-127		10.6	20
Pyridine	28.2	10.0	"	100		28.2	10-46		9.32	20
Surrogate: 2-Fluorophenol	52.0		"	150		34.6	10-65			
Surrogate: Phenol-d5	38.2		"	150		25.4	10-49			
Surrogate: Nitrobenzene-d5	75.3		"	100		75.0	10-96			
Surrogate: 2-Fluorobiphenyl	66.8		"	100		66.5	10-93			
Surrogate: 2,4,6-Tribromophenol	128		"	150		85.1	10-128			
Surrogate: Terphenyl-d14	62.6		"	100		62.6	10-100			

Duplicate (BD60113-DUP1)

*Source sample: 16C1184-06 (Site Wide Composite)

Prepared & Analyzed: 04/04/2016

1,4-Dichlorobenzene	ND	10.5	ug/L		ND					200
2,4,5-Trichlorophenol	ND	10.5	"		ND					200
2,4,6-Trichlorophenol	ND	10.5	"		ND					200
2,4-Dinitrotoluene	ND	10.5	"		ND					200
2-Methylphenol	ND	10.5	"		ND					200
3- & 4-Methylphenols	ND	21.1	"		ND					200
Cresols, total	ND	31.6	"		ND					200
Hexachlorobenzene	ND	10.5	"		ND					200
Hexachlorobutadiene	ND	10.5	"		ND					200
Hexachloroethane	ND	10.5	"		ND					200
Nitrobenzene	ND	10.5	"		ND					200
Pentachlorophenol	ND	10.5	"		ND					200
Pyridine	ND	10.5	"		ND					200
Surrogate: 2-Fluorophenol	42.2		"	158		26.7	10-65			
Surrogate: Phenol-d5	28.6		"	158		18.1	10-49			
Surrogate: Nitrobenzene-d5	72.6		"	106		68.7	10-96			
Surrogate: 2-Fluorobiphenyl	65.2		"	106		61.7	10-93			
Surrogate: 2,4,6-Tribromophenol	129		"	158		81.3	10-128			
Surrogate: Terphenyl-d14	69.9		"	105		66.4	10-100			



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BC61595 - EPA 3550C

Blank (BC61595-BLK1)

Prepared: 03/30/2016 Analyzed: 03/31/2016

4,4'-DDD	ND	0.330	ug/kg wet								
4,4'-DDE	ND	0.330	"								
4,4'-DDT	ND	0.330	"								
Aldrin	ND	0.330	"								
alpha-BHC	ND	0.330	"								
alpha-Chlordane	ND	0.330	"								
beta-BHC	ND	0.330	"								
Chlordane, total	ND	13.2	"								
delta-BHC	ND	0.330	"								
Dieldrin	ND	0.330	"								
Endosulfan I	ND	0.330	"								
Endosulfan II	ND	0.330	"								
Endosulfan sulfate	ND	0.330	"								
Endrin	ND	0.330	"								
Endrin aldehyde	ND	0.330	"								
Endrin ketone	ND	0.330	"								
gamma-BHC (Lindane)	ND	0.330	"								
gamma-Chlordane	ND	0.330	"								
Heptachlor	ND	0.330	"								
Heptachlor epoxide	ND	0.330	"								
Methoxychlor	ND	0.330	"								
Toxaphene	ND	33.0	"								
Surrogate: Decachlorobiphenyl	77.4		"	69.0		112	30-150				
Surrogate: Tetrachloro-m-xylene	89.2		"	67.0		133	30-150				

LCS (BC61595-BS1)

Prepared: 03/30/2016 Analyzed: 03/31/2016

4,4'-DDD	32.2	0.330	ug/kg wet	33.3		96.5	40-140				
4,4'-DDE	27.9	0.330	"	33.3		83.7	40-140				
4,4'-DDT	31.0	0.330	"	33.3		93.0	40-140				
Aldrin	31.3	0.330	"	33.3		93.9	40-140				
alpha-BHC	37.4	0.330	"	33.3		112	40-140				
alpha-Chlordane	30.8	0.330	"	33.3		92.3	40-140				
beta-BHC	33.3	0.330	"	33.3		99.8	40-140				
delta-BHC	33.2	0.330	"	33.3		99.7	40-140				
Dieldrin	31.5	0.330	"	33.3		94.4	40-140				
Endosulfan I	32.3	0.330	"	33.3		97.0	40-140				
Endosulfan II	32.7	0.330	"	33.3		98.1	40-140				
Endosulfan sulfate	30.3	0.330	"	33.3		90.8	40-140				
Endrin	34.2	0.330	"	33.3		103	40-140				
Endrin aldehyde	30.4	0.330	"	33.3		91.3	40-140				
Endrin ketone	36.3	0.330	"	33.3		109	40-140				
gamma-BHC (Lindane)	37.2	0.330	"	33.3		112	40-140				
gamma-Chlordane	31.4	0.330	"	33.3		94.1	40-140				
Heptachlor	34.9	0.330	"	33.3		105	40-140				
Heptachlor epoxide	31.7	0.330	"	33.3		95.1	40-140				
Methoxychlor	36.1	0.330	"	33.3		108	40-140				
Surrogate: Decachlorobiphenyl	55.4		"	69.0		80.2	30-150				
Surrogate: Tetrachloro-m-xylene	68.8		"	67.0		103	30-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC61595 - EPA 3550C											
Matrix Spike (BC61595-MS1)	*Source sample: 16C1184-02 (WCLB-2)						Prepared: 03/30/2016 Analyzed: 03/31/2016				
4,4'-DDD	36.7	1.79	ug/kg dry	36.2	ND	101	30-150				
4,4'-DDE	25.9	1.79	"	36.2	ND	71.6	30-150				
4,4'-DDT	26.6	1.79	"	36.2	ND	73.3	30-150				
Aldrin	17.4	1.79	"	36.2	ND	48.1	30-150				
alpha-BHC	18.1	1.79	"	36.2	ND	50.0	30-150				
alpha-Chlordane	21.7	1.79	"	36.2	ND	60.0	30-150				
beta-BHC	20.0	1.79	"	36.2	ND	55.2	30-150				
delta-BHC	16.5	1.79	"	36.2	ND	45.5	30-150				
Dieldrin	18.1	1.79	"	36.2	ND	50.1	30-150				
Endosulfan I	20.2	1.79	"	36.2	ND	55.8	30-150				
Endosulfan II	27.5	1.79	"	36.2	ND	75.9	30-150				
Endosulfan sulfate	33.2	1.79	"	36.2	ND	91.6	30-150				
Endrin	25.0	1.79	"	36.2	ND	68.9	30-150				
Endrin aldehyde	27.3	1.79	"	36.2	ND	75.3	30-150				
Endrin ketone	ND	1.79	"	36.2	ND		30-150	Low Bias			
gamma-BHC (Lindane)	17.5	1.79	"	36.2	ND	48.3	30-150				
gamma-Chlordane	25.2	1.79	"	36.2	ND	69.7	30-150				
Heptachlor	23.5	1.79	"	36.2	ND	64.8	30-150				
Heptachlor epoxide	25.9	1.79	"	36.2	ND	71.4	30-150				
Methoxychlor	44.0	1.79	"	36.2	ND	122	30-150				
<i>Surrogate: Decachlorobiphenyl</i>	46.7		"	75.0		62.3	30-150				
<i>Surrogate: Tetrachloro-m-xylene</i>	35.2		"	72.8		48.4	30-150				
Matrix Spike Dup (BC61595-MSD1)	*Source sample: 16C1184-02 (WCLB-2)						Prepared: 03/30/2016 Analyzed: 03/31/2016				
4,4'-DDD	28.9	1.79	ug/kg dry	36.2	ND	79.8	30-150		23.8	30	
4,4'-DDE	20.5	1.79	"	36.2	ND	56.5	30-150		23.6	30	
4,4'-DDT	25.3	1.79	"	36.2	ND	69.8	30-150		4.92	30	
Aldrin	19.4	1.79	"	36.2	ND	53.5	30-150		10.5	30	
alpha-BHC	18.6	1.79	"	36.2	ND	51.4	30-150		2.94	30	
alpha-Chlordane	21.4	1.79	"	36.2	ND	59.1	30-150		1.50	30	
beta-BHC	23.1	1.79	"	36.2	ND	63.8	30-150		14.5	30	
delta-BHC	20.2	1.79	"	36.2	ND	55.7	30-150		20.2	30	
Dieldrin	20.7	1.79	"	36.2	ND	57.0	30-150		12.9	30	
Endosulfan I	22.5	1.79	"	36.2	ND	62.0	30-150		10.5	30	
Endosulfan II	25.0	1.79	"	36.2	ND	69.1	30-150		9.48	30	
Endosulfan sulfate	27.6	1.79	"	36.2	ND	76.3	30-150		18.3	30	
Endrin	24.9	1.79	"	36.2	ND	68.6	30-150		0.407	30	
Endrin aldehyde	22.7	1.79	"	36.2	ND	62.6	30-150		18.5	30	
Endrin ketone	35.6	1.79	"	36.2	ND	98.2	30-150			30	
gamma-BHC (Lindane)	19.8	1.79	"	36.2	ND	54.6	30-150		12.4	30	
gamma-Chlordane	21.6	1.79	"	36.2	ND	59.6	30-150		15.5	30	
Heptachlor	25.2	1.79	"	36.2	ND	69.5	30-150		7.04	30	
Heptachlor epoxide	23.3	1.79	"	36.2	ND	64.3	30-150		10.4	30	
Methoxychlor	39.5	1.79	"	36.2	ND	109	30-150		10.9	30	
<i>Surrogate: Decachlorobiphenyl</i>	44.5		"	75.0		59.3	30-150				
<i>Surrogate: Tetrachloro-m-xylene</i>	32.4		"	72.8		44.5	30-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BD60068 - EPA 3510C/1311

Blank (BD60068-BLK1)

Prepared: 04/01/2016 Analyzed: 04/05/2016

Chlordane, total	ND	0.800	ug/L								
Endrin	ND	0.0800	"								
gamma-BHC (Lindane)	ND	0.0800	"								
Heptachlor	ND	0.0800	"								
Heptachlor epoxide	ND	0.0800	"								
Methoxychlor	ND	0.0800	"								
Toxaphene	ND	2.00	"								
<i>Surrogate: Tetrachloro-m-xylene</i>	3.94		"	4.02		98.1	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	3.49		"	4.14		84.3	30-120				

LCS (BD60068-BS1)

Prepared: 04/01/2016 Analyzed: 04/05/2016

Endrin	2.19	0.0800	ug/L	2.00		109	40-120				
gamma-BHC (Lindane)	1.95	0.0800	"	2.00		97.4	40-120				
Heptachlor	1.76	0.0800	"	2.00		87.8	40-120				
Heptachlor epoxide	1.79	0.0800	"	2.00		89.7	40-120				
Methoxychlor	2.35	0.0800	"	2.00		118	40-120				
<i>Surrogate: Tetrachloro-m-xylene</i>	2.91		"	4.02		72.4	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	3.11		"	4.14		75.1	30-120				

LCS Dup (BD60068-BSD1)

Prepared: 04/01/2016 Analyzed: 04/05/2016

Endrin	2.31	0.0800	ug/L	2.00		115	40-120		5.41	30	
gamma-BHC (Lindane)	2.25	0.0800	"	2.00		112	40-120		14.2	30	
Heptachlor	2.12	0.0800	"	2.00		106	40-120		18.7	30	
Heptachlor epoxide	2.03	0.0800	"	2.00		102	40-120		12.6	30	
Methoxychlor	2.36	0.0800	"	2.00		118	40-120		0.377	30	
<i>Surrogate: Tetrachloro-m-xylene</i>	3.65		"	4.02		90.7	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	3.93		"	4.14		95.0	30-120				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BC61595 - EPA 3550C

Blank (BC61595-BLK2)

Prepared: 03/30/2016 Analyzed: 03/31/2016

Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								

Surrogate: Tetrachloro-m-xylene

0.0683

"

0.0670

102

30-140

Surrogate: Decachlorobiphenyl

0.0637

"

0.0690

92.3

30-140

LCS (BC61595-BS2)

Prepared: 03/30/2016 Analyzed: 03/31/2016

Aroclor 1016	0.386	0.0167	mg/kg wet	0.333		116	40-130				
Aroclor 1260	0.375	0.0167	"	0.333		113	40-130				

Surrogate: Tetrachloro-m-xylene

0.0647

"

0.0670

96.5

30-140

Surrogate: Decachlorobiphenyl

0.0603

"

0.0690

87.4

30-140



Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BD60151 - EPA 3550B/8151A

Blank (BD60151-BLK1)

Prepared & Analyzed: 04/05/2016

2,4,5-T	ND	20.0	ug/kg wet								
2,4,5-TP (Silvex)	ND	20.0	"								
2,4-D	ND	20.0	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	478		"	500		95.6	30-150				

LCS (BD60151-BS1)

Prepared & Analyzed: 04/05/2016

2,4,5-T	105	20.0	ug/kg wet	160		65.6	40-140				
2,4,5-TP (Silvex)	114	20.0	"	160		71.2	40-140				
2,4-D	119	20.0	"	160		74.4	40-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	379		"	500		75.8	30-150				

Matrix Spike (BD60151-MS1)

*Source sample: 16C1184-02 (WCLB-2)

Prepared: 04/05/2016 Analyzed: 04/06/2016

2,4,5-T	90.2	21.7	ug/kg dry	174	ND	51.9	30-150				
2,4,5-TP (Silvex)	85.8	21.7	"	174	ND	49.4	30-150				
2,4-D	71.7	21.7	"	174	ND	41.2	30-150				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	300		"	543		55.2	30-150				

Matrix Spike Dup (BD60151-MSD1)

*Source sample: 16C1184-02 (WCLB-2)

Prepared: 04/05/2016 Analyzed: 04/06/2016

2,4,5-T	123	21.7	ug/kg dry	174	ND	70.6	30-150	30.6	35		
2,4,5-TP (Silvex)	103	21.7	"	174	ND	59.4	30-150	18.4	35		
2,4-D	81.5	21.7	"	174	ND	46.9	30-150	12.8	35		
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	372		"	543		68.4	30-150				

Batch BD60176 - EPA 3535A

Blank (BD60176-BLK1)

Prepared & Analyzed: 04/05/2016

2,4,5-TP (Silvex)	ND	5.00	ug/L								
2,4-D	ND	5.00	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	129		"	125		103	30-150				



Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BD60176 - EPA 3535A

LCS (BD60176-BS1)

Prepared & Analyzed: 04/05/2016

2,4,5-TP (Silvex)	30.8	5.00	ug/L	40.0		76.9	40-140				
2,4-D	31.0	5.00	"	40.0		77.5	40-140				
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	<i>95.5</i>		<i>"</i>	<i>125</i>		<i>76.4</i>	<i>30-150</i>				

LCS Dup (BD60176-BSD1)

Prepared & Analyzed: 04/05/2016

2,4,5-TP (Silvex)	31.2	5.00	ug/L	40.0		78.1	40-140		1.61	30	
2,4-D	33.0	5.00	"	40.0		82.5	40-140		6.25	30	
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	<i>100</i>		<i>"</i>	<i>125</i>		<i>80.0</i>	<i>30-150</i>				



Gas Chromatography/Flame Ionization Detector - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BC61669 - EPA 3550C

Blank (BC61669-BLK1)										Prepared: 03/31/2016 Analyzed: 04/01/2016	
Total Petroleum Hydrocarbons-DRO	ND	10.0	mg/kg wet								
Surrogate: Triacontane	7.95		"	10.0		79.5	30-150				
LCS (BC61669-BS1)										Prepared: 03/31/2016 Analyzed: 04/01/2016	
Total Petroleum Hydrocarbons-DRO	134	10.0	mg/kg wet	172		78.1	40-140				
Surrogate: Triacontane	7.55		"	10.0		75.5	30-150				
Matrix Spike (BC61669-MS1)										Prepared: 03/31/2016 Analyzed: 04/01/2016	
Total Petroleum Hydrocarbons-DRO	187	10.9	mg/kg dry	187	19.3	89.8	30-150				
Surrogate: Triacontane	10.2		"	10.9		93.8	30-150				
Matrix Spike Dup (BC61669-MSD1)										Prepared: 03/31/2016 Analyzed: 04/01/2016	
Total Petroleum Hydrocarbons-DRO	195	10.9	mg/kg dry	187	19.3	93.8	30-150		3.91	30	
Surrogate: Triacontane	9.03		"	10.9		83.1	30-150				

Batch BD60111 - EPA 5035A

Blank (BD60111-BLK1)										Prepared & Analyzed: 04/04/2016	
Total Petroleum Hydrocarbons-GRO	ND	80.0	mg/kg wet								
Surrogate: p-Bromofluorobenzene	172		ug/L	200		86.0	70-130				
Matrix Spike (BD60111-MS1)										Prepared & Analyzed: 04/04/2016	
Total Petroleum Hydrocarbons-GRO	9250		ug/L	8000	200	113	70-130				
Surrogate: p-Bromofluorobenzene	178		"	200		89.0	70-130				
Matrix Spike Dup (BD60111-MSD1)										Prepared & Analyzed: 04/04/2016	
Total Petroleum Hydrocarbons-GRO	8750		ug/L	8000	200	107	70-130		5.65	30	
Surrogate: p-Bromofluorobenzene	177		"	200		88.6	70-130				



Gas Chromatography/Flame Ionization Detector - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BD60111 - EPA 5035A

Reference (BD60111-SRM1)

Prepared & Analyzed: 04/04/2016

Total Petroleum Hydrocarbons-GRO	312	20.0	mg/kg wet	353		88.4	10-221				
Surrogate: <i>p</i> -Bromofluorobenzene	207		ug/L	200		103	70-130				



Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BD60041 - EPA 3050B

Blank (BD60041-BLK1)

Prepared & Analyzed: 04/01/2016

Aluminum	ND	5.00	mg/kg wet
Antimony	ND	0.500	"
Arsenic	ND	1.00	"
Barium	ND	1.00	"
Beryllium	ND	0.100	"
Cadmium	ND	0.300	"
Calcium	ND	5.00	"
Chromium	ND	0.500	"
Cobalt	ND	0.500	"
Copper	ND	0.500	"
Iron	ND	2.00	"
Lead	ND	0.300	"
Magnesium	ND	5.00	"
Manganese	ND	0.500	"
Nickel	ND	0.500	"
Potassium	ND	5.00	"
Selenium	ND	1.00	"
Silver	ND	0.500	"
Sodium	ND	10.0	"
Thallium	ND	1.00	"
Vanadium	ND	1.00	"
Zinc	ND	1.00	"

Duplicate (BD60041-DUP1)

*Source sample: 16C1184-02 (WCLB-2)

Prepared & Analyzed: 04/01/2016

Aluminum	4030	5.43	mg/kg dry	3970	1.65	35
Antimony	ND	0.543	"	ND		35
Arsenic	ND	1.09	"	ND		35
Barium	464	1.09	"	454	2.21	35
Beryllium	ND	0.109	"	ND		35
Cadmium	1.60	0.326	"	1.59	0.975	35
Calcium	669	5.43	"	657	1.90	35
Chromium	16.2	0.543	"	16.1	0.966	35
Cobalt	4.58	0.543	"	4.52	1.40	35
Copper	6.46	0.543	"	6.44	0.297	35
Iron	10100	2.17	"	9960	1.78	35
Lead	5.20	0.326	"	5.22	0.218	35
Magnesium	3200	5.43	"	3140	1.64	35
Manganese	111	0.543	"	109	2.21	35
Nickel	30.3	0.543	"	30.1	0.665	35
Potassium	584	5.43	"	578	1.00	35
Selenium	ND	1.09	"	ND		35
Silver	ND	0.543	"	ND		35
Sodium	547	10.9	"	546	0.0837	35
Thallium	ND	1.09	"	ND		35
Vanadium	16.1	1.09	"	15.9	0.957	35
Zinc	275	1.09	"	272	1.10	35



Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BD60041 - EPA 3050B

Matrix Spike (BD60041-MS1)		*Source sample: 16C1184-02 (WCLB-2)					Prepared & Analyzed: 04/01/2016				
Aluminum	4290	5.43	mg/kg dry	217	3970	147	75-125	High Bias			
Antimony	25.8	0.543	"	27.2	ND	95.1	75-125				
Arsenic	213	1.09	"	217	ND	98.0	75-125				
Barium	698	1.09	"	217	454	112	75-125				
Beryllium	5.57	0.109	"	5.43	ND	102	75-125				
Cadmium	7.19	0.326	"	5.43	1.59	103	75-125				
Chromium	38.5	0.543	"	21.7	16.1	103	75-125				
Cobalt	62.8	0.543	"	54.3	4.52	107	75-125				
Copper	35.2	0.543	"	27.2	6.44	106	75-125				
Iron	10300	2.17	"	109	9960	327	75-125	High Bias			
Lead	59.9	0.326	"	54.3	5.22	101	75-125				
Magnesium	3230	5.43	"		3140		75-125				
Manganese	170	0.543	"	54.3	109	112	75-125				
Nickel	88.9	0.543	"	54.3	30.1	108	75-125				
Potassium	590	5.43	"		578		75-125				
Selenium	211	1.09	"	217	ND	97.2	75-125				
Silver	3.11	0.543	"	5.43	ND	57.3	75-125	Low Bias			
Sodium	547	10.9	"		546		75-125				
Thallium	214	1.09	"	217	ND	98.7	75-125				
Vanadium	69.8	1.09	"	54.3	15.9	99.1	75-125				
Zinc	331	1.09	"	54.3	272	108	75-125				

Reference (BD60041-SRM1)		Prepared & Analyzed: 04/01/2016									
Aluminum	8250	5.00	mg/kg wet	8060		102	38.9-160				
Antimony	79.9	0.500	"	94.0		85.0	22.8-257.5				
Arsenic	105	1.00	"	113		92.6	69.7-142.5				
Barium	157	1.00	"	155		101	72.9-127.1				
Beryllium	105	0.100	"	109		96.2	74.7-124.8				
Cadmium	62.5	0.300	"	67.5		92.6	73.2-126.8				
Calcium	5620	5.00	"	5850		96.0	73.7-126.5				
Chromium	160	0.500	"	164		97.3	70.7-129.9				
Cobalt	99.0	0.500	"	100		99.0	74.4-126				
Copper	128	0.500	"	128		99.7	75.2-125.8				
Iron	15300	2.00	"	15200		101	37.4-162.5				
Lead	82.1	0.300	"	90.1		91.1	70.1-129.9				
Magnesium	2760	5.00	"	2790		99.1	65.2-135.1				
Manganese	375	0.500	"	363		103	75.8-124.5				
Nickel	95.7	0.500	"	89.3		107	72-127.7				
Potassium	2680	5.00	"	2770		96.7	61.7-138.3				
Selenium	142	1.00	"	156		91.3	67.3-132.1				
Silver	49.1	0.500	"	52.6		93.4	66.7-133.5				
Sodium	654	10.0	"	686		95.3	55.8-144.2				
Thallium	91.9	1.00	"	116		79.2	67.4-131.9				
Vanadium	71.4	1.00	"	73.0		97.8	59.7-139.7				
Zinc	158	1.00	"	168		93.9	69-131.5				



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

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

Batch BD60050 - EPA 3015A/1311

Blank (BD60050-BLK1)

Prepared: 04/01/2016 Analyzed: 04/02/2016

Arsenic	ND	0.004	mg/L
Barium	ND	0.010	"
Cadmium	ND	0.003	"
Chromium	ND	0.005	"
Lead	ND	0.003	"
Selenium	ND	0.010	"
Silver	ND	0.005	"

Blank (BD60050-BLK2)

Prepared: 04/01/2016 Analyzed: 04/02/2016

Arsenic	ND	0.004	mg/L
Barium	ND	0.010	"
Cadmium	ND	0.003	"
Chromium	ND	0.005	"
Lead	0.004	0.003	"
Selenium	0.014	0.010	"
Silver	ND	0.005	"

Reference (BD60050-SRM1)

Prepared: 04/01/2016 Analyzed: 04/02/2016

Arsenic	0.549	ug/mL	0.580	94.7	83.9-114.7
Barium	0.487	"	0.480	101	85-115
Cadmium	0.450	"	0.470	95.7	85.1-115.1
Chromium	0.659	"	0.639	103	84.9-115
Lead	0.467	"	0.490	95.3	85.1-115.1
Selenium	0.774	"	0.839	92.3	84.9-115
Silver	0.591	"	0.600	98.5	85-115



Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BC61624 - EPA 7473 soil

Blank (BC61624-BLK1)								Prepared & Analyzed: 03/31/2016			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BC61624-DUP1)								Prepared & Analyzed: 03/31/2016			
*Source sample: 16C1184-02 (WCLB-2)											
Mercury	0.0779	0.0326	mg/kg dry		0.0657				16.9	35	
Matrix Spike (BC61624-MS1)								Prepared & Analyzed: 03/31/2016			
*Source sample: 16C1184-02 (WCLB-2)											
Mercury	0.668		mg/kg	0.500	0.0605	121	75-125				
Reference (BC61624-SRM1)								Prepared & Analyzed: 03/31/2016			
Mercury	7.0297		mg/kg	5.76		122	71.2-129				

Batch BD60127 - EPA 7473 water

Blank (BD60127-BLK1)								Prepared: 04/04/2016 Analyzed: 04/05/2016			
Mercury	ND	0.000200	mg/L								
Reference (BD60127-SRM1)								Prepared: 04/04/2016 Analyzed: 04/05/2016			
Mercury	0.00200		mg/L	0.00230		87.2	61.3-135				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BC61662 - % Solids Prep

Duplicate (BC61662-DUP1)		*Source sample: 16C1184-02 (WCLB-2)					Prepared & Analyzed: 03/31/2016				
% Solids	93.2	0.100	%		92.0			1.31	20		



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

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD Limit	Flag
Batch BC61609 - EPA SW 846-1311 TCLP ext. for metals									
Blank (BC61609-BLK1)					Prepared: 03/30/2016 Analyzed: 03/31/2016				
TCLP Extraction	Completed	1.00	N/A						
Batch BC61610 - EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS									
Blank (BC61610-BLK1)					Prepared: 03/30/2016 Analyzed: 03/31/2016				
TCLP Extraction	Completed	1.00	N/A						
Batch BC61611 - EPA SW 846-1311 TCLP ZHE for VOA									
Blank (BC61611-BLK1)					Prepared: 03/30/2016 Analyzed: 03/31/2016				
TCLP Extraction	Completed	1.00	%						
Batch BC61636 - Analysis Preparation Soil									
Blank (BC61636-BLK1)					Prepared & Analyzed: 03/31/2016				
Cyanide, total	ND	0.500	mg/kg wet						
Duplicate (BC61636-DUP1)					Prepared & Analyzed: 03/31/2016				
Cyanide, total	ND	0.543	mg/kg dry		ND			15	
Matrix Spike (BC61636-MS1)					Prepared & Analyzed: 03/31/2016				
Cyanide, total	8.69	0.543	mg/kg dry	10.9	ND	80.0	79.6-107		
Reference (BC61636-SRM1)					Prepared & Analyzed: 03/31/2016				
Cyanide, total	61.5		ug/mL	53.9		114	37.5-163.7		



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

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60033 - EPA SW846-3060											
Blank (BD60033-BLK1)								Prepared & Analyzed: 04/01/2016			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BD60033-DUP1) *Source sample: 16C1184-02 (WCLB-2)								Prepared & Analyzed: 04/01/2016			
Chromium, Hexavalent	ND	0.543	mg/kg dry		ND					35	
Matrix Spike (BD60033-MS1) *Source sample: 16C1184-02 (WCLB-2)								Prepared & Analyzed: 04/01/2016			
Chromium, Hexavalent	19.3	0.543	mg/kg dry	21.7	ND	88.8	75-125				
Reference (BD60033-SRM1)								Prepared & Analyzed: 04/01/2016			
Chromium, Hexavalent	66.6		mg/L	110		60.5	30.3-201				
Batch BD60244 - Analysis Preparation											
Blank (BD60244-BLK1)								Prepared & Analyzed: 04/06/2016			
Reactivity - Cyanide	ND	0.250	mg/kg								
Batch BD60245 - Analysis Preparation											
Blank (BD60245-BLK1)								Prepared & Analyzed: 04/06/2016			
Reactivity - Sulfide	ND	15.0	mg/kg								
LCS (BD60245-BS1)								Prepared & Analyzed: 04/06/2016			
Reactivity - Sulfide	208	15.0	mg/kg	250		83.2	30-150				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
16C1184-01	WCLB-1	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
16C1184-01	WCLB-1	40mL Vial with Stir Bar-Cool 4° C
16C1184-02	WCLB-2	40mL Vial with Stir Bar-Cool 4° C
16C1184-02	WCLB-2	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
16C1184-03	WCLB-3	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
16C1184-03	WCLB-3	40mL Vial with Stir Bar-Cool 4° C
16C1184-04	WCLB-4	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
16C1184-04	WCLB-4	40mL Vial with Stir Bar-Cool 4° C
16C1184-05	WCLB-5	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
16C1184-05	WCLB-5	40mL Vial with Stir Bar-Cool 4° C
16C1184-06	Site Wide Composite	40mL 01_Clear Vial Cool to 4° C
16C1184-07	DUP-1	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
16C1184-07	DUP-1	40mL Vial with Stir Bar-Cool 4° C
16C1184-08	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Notes and Definitions

M-LSRD	Original sample conc <50 X reporting limit.
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).
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
EXT-COMP	Completed
EXT-Temp	Extraction temperture slightly exceeded acceptance range.
HT-pH	HOLDING TIME EXCEEDED. Samples for pH must be measured in the field or within 15 minutes of sample collection.
IGN-01	Non-Ignit.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
M-BCCB	Analyte in CCB > MDL. Sample conc. >10 X blank conc.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
M-HCSpk	Sample conc. >10 X spike conc.
SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
M-MISpk	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The SRM was within acceptance limits, therefore data are acceptable.
M-SeTC	It is noted that a known interference with selenium at the analytical line for analysis by ICP is caused by carbon emission from the TCLP or high organics matrix. The data user may subtract the matrix blank value from the data if needed.
PF-01	No Free Liquid
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.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
S-08	The recovery of this surrogate was outside of QC limits.
M-DB	Analyte in Method Blank >MDL. Sample conc. >10 X blank conc.

*	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
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

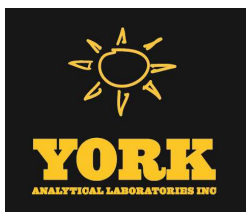
Field Chain-of-Custody Record

Page 1 of 1

York Project No. 16C1184

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

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type	
Company: <u>Langan Engineering</u>	Company: <u>same</u>	Company: <u>same</u>	Company: <u>same</u>	Company: <u>same</u>	Company: <u>same</u>	Company: <u>same</u>	Company: <u>same</u>	Company: <u>same</u>	Company: <u>same</u>	Company: <u>same</u>	Company: <u>same</u>
Address: <u>555 Longbridge</u>	Address: <u>same</u>	Address: <u>same</u>	Address: <u>same</u>	Address: <u>same</u>	Address: <u>same</u>	Address: <u>same</u>	Address: <u>same</u>	Address: <u>same</u>	Address: <u>same</u>	Address: <u>same</u>	Address: <u>same</u>
Phone No. <u>203 502-5711</u>	Phone No. <u>same</u>	Phone No. <u>same</u>	Phone No. <u>same</u>	Phone No. <u>same</u>	Phone No. <u>same</u>	Phone No. <u>same</u>	Phone No. <u>same</u>	Phone No. <u>same</u>	Phone No. <u>same</u>	Phone No. <u>same</u>	Phone No. <u>same</u>
Contact Person: <u>Daria Collins</u>	Contact Person: <u>same</u>	Contact Person: <u>same</u>	Contact Person: <u>same</u>	Contact Person: <u>same</u>	Contact Person: <u>same</u>	Contact Person: <u>same</u>	Contact Person: <u>same</u>	Contact Person: <u>same</u>	Contact Person: <u>same</u>	Contact Person: <u>same</u>	Contact Person: <u>same</u>
E-Mail Address: <u>dcollins@langan.com</u>	E-Mail Address: <u>same</u>	E-Mail Address: <u>same</u>	E-Mail Address: <u>same</u>	E-Mail Address: <u>same</u>	E-Mail Address: <u>same</u>	E-Mail Address: <u>same</u>	E-Mail Address: <u>same</u>	E-Mail Address: <u>same</u>	E-Mail Address: <u>same</u>	E-Mail Address: <u>same</u>	E-Mail Address: <u>same</u>
Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved. Samples Collected/Authorized By (Signature) <u>Daria Collins</u> Name (printed)											
Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below								
WCLB-1	3.25.16 2220	S	TPH (pro/gro) (grab sample) NYDEC VOCs + SVCS, PCBs, PAHs, TCs, Metals, etc.								
WCLB-2 MS/MSD	2233	S	FULL TCLP, RCRA Characteristics, + Paint Filter								
WCLB-3	2249	S	TPH (pro/gro) NYDEC VOCs + SVCS, PCBs, PAHs, TCs, Metals, etc.								
WCLB-4	2258	S	NY DEC and NJDEC VOCs								
WCLB-5	2307	S	NY DEC and NJDEC VOCs								
Site Wick Composite	2314	S	NY DEC and NJDEC VOCs								
Due-1	-	S	NY DEC and NJDEC VOCs								
Tap Blank	-	Ag	NY DEC and NJDEC VOCs								
Comments			Preservation: Check those Applicable: ☐ Special ☐ Instructions ☐ Field Filtered ☐ Lab to Filter								
Temperature on Receipt			5.0 °C								



Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive

New Haven CT, 06511

Attention: Hannah Griesbach

Report Date: 05/04/2017

Client Project ID: 140080114 Kings Plaza

York Project (SDG) No.: 17D0866

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371



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

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 05/04/2017
Client Project ID: 140080114 Kings Plaza
York Project (SDG) No.: 17D0866

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Hannah Griesbach

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 21, 2017 and listed below. The project was identified as your project: **140080114 Kings Plaza**.

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 Notes 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 attachment to 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>
17D0866-01	South-SE-Corner	Soil	04/21/2017	04/21/2017
17D0866-02	South-SW-Corner	Soil	04/21/2017	04/21/2017
17D0866-03	South-NW-Corner	Soil	04/21/2017	04/21/2017
17D0866-04	South-NE-Corner	Soil	04/21/2017	04/21/2017
17D0866-05	South-Bottom1	Soil	04/21/2017	04/21/2017
17D0866-06	South-Bottom2	Soil	04/21/2017	04/21/2017
17D0866-07	DUP-1-4.21.17	Soil	04/21/2017	04/21/2017
17D0866-08	Trip Blank	Water	04/21/2017	04/21/2017

General Notes for York Project (SDG) No.: 17D0866

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 samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
9. 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: 05/04/2017





Sample Information

Client Sample ID: South-SE-Corner

York Sample ID: 17D0866-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17D0866

140080114 Kings Plaza

Soil

April 21, 2017 9:30 am

04/21/2017

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	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 02:58	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 02:58	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	88	180	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
78-93-3	2-Butanone	15		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
591-78-6	2-Hexanone	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK



Sample Information

Client Sample ID: South-SE-Corner

York Sample ID: 17D0866-01

York Project (SDG) No.
17D0866

Client Project ID
140080114 Kings Plaza

Matrix
Soil

Collection Date/Time
April 21, 2017 9:30 am

Date Received
04/21/2017

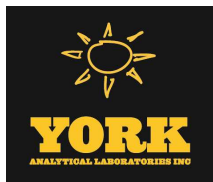
Volatile Organics, 8260 - Comprehensive

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	4.4	8.8	1	EPA 8260C Certifications: CTDOH	04/26/2017 18:42	04/27/2017 02:58	BK
67-64-1	Acetone	54	SCAL-E	ug/kg dry	8.8	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
107-02-8	Acrolein	ND		ug/kg dry	8.8	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
71-43-2	Benzene	19		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
75-25-2	Bromoform	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
74-83-9	Bromomethane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
75-15-0	Carbon disulfide	51	CCV-E	ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
75-00-3	Chloroethane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
67-66-3	Chloroform	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
74-87-3	Chloromethane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
156-59-2	cis-1,2-Dichloroethylene	820	E	ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
110-82-7	Cyclohexane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
74-95-3	Dibromomethane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 02:58	BK



Sample Information

Client Sample ID: South-SE-Corner

York Sample ID: 17D0866-01

York Project (SDG) No.

17D0866

Client Project ID

140080114 Kings Plaza

Matrix

Soil

Collection Date/Time

April 21, 2017 9:30 am

Date Received

04/21/2017

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	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
79-20-9	Methyl acetate	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
75-09-2	Methylene chloride	ND		ug/kg dry	8.8	18	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
95-47-6	o-Xylene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,PADEP	04/27/2017 02:58	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	8.8	18	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,PADEP	04/27/2017 02:58	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
100-42-5	Styrene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	4.4	18	1	EPA 8260C Certifications:	04/26/2017 18:42 NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
127-18-4	Tetrachloroethylene	15		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
108-88-3	Toluene	16		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
156-60-5	trans-1,2-Dichloroethylene	72		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
79-01-6	Trichloroethylene	18		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
75-01-4	Vinyl Chloride	4300	E	ug/kg dry	4.4	8.8	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 02:58	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	13	26	1	EPA 8260C Certifications:	04/26/2017 18:42 CTDOH,NELAC-NY10854,NJDEP	04/27/2017 02:58	BK



Sample Information

Client Sample ID: South-SE-Corner

York Sample ID: 17D0866-01

York Project (SDG) No.
17D0866

Client Project ID
140080114 Kings Plaza

Matrix
Soil

Collection Date/Time
April 21, 2017 9:30 am

Date Received
04/21/2017

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	61.5		%	0.100	1	SM 2540G Certifications: CTDOH	04/27/2017 17:28	04/28/2017 12:12	TAJ

Sample Information

Client Sample ID: South-SW-Corner

York Sample ID: 17D0866-02

York Project (SDG) No.
17D0866

Client Project ID
140080114 Kings Plaza

Matrix
Soil

Collection Date/Time
April 21, 2017 9:45 am

Date Received
04/21/2017

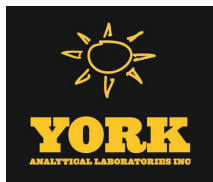
Volatile Organics, 8260 - Comprehensive

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	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 03:30	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 03:30	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK



Sample Information

Client Sample ID: South-SW-Corner

York Sample ID: 17D0866-02

York Project (SDG) No.

17D0866

Client Project ID

140080114 Kings Plaza

Matrix

Soil

Collection Date/Time

April 21, 2017 9:45 am

Date Received

04/21/2017

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	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	84	170	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
78-93-3	2-Butanone	20		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
591-78-6	2-Hexanone	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
108-10-1	* 4-Methyl-2-pentanone	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH	04/26/2017 18:42	04/27/2017 03:30	BK
67-64-1	Acetone	75	SCAL-E	ug/kg dry	8.4	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
107-02-8	Acrolein	ND		ug/kg dry	8.4	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
71-43-2	Benzene	39		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
75-25-2	Bromoform	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
74-83-9	Bromomethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
75-15-0	Carbon disulfide	11	CCV-E	ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
75-00-3	Chloroethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
67-66-3	Chloroform	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
74-87-3	Chloromethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK



Sample Information

Client Sample ID: South-SW-Corner

York Sample ID: 17D0866-02

York Project (SDG) No.

17D0866

Client Project ID

140080114 Kings Plaza

Matrix

Soil

Collection Date/Time

April 21, 2017 9:45 am

Date Received

04/21/2017

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	2000		ug/kg dry	390	790	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 09:23	04/27/2017 16:46	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
110-82-7	Cyclohexane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
74-95-3	Dibromomethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
79-20-9	Methyl acetate	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
75-09-2	Methylene chloride	ND		ug/kg dry	8.4	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
95-47-6	o-Xylene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	8.4	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
100-42-5	Styrene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	4.2	17	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK



Sample Information

Client Sample ID: South-SW-Corner

York Sample ID: 17D0866-02

York Project (SDG) No.
17D0866

Client Project ID
140080114 Kings Plaza

Matrix
Soil

Collection Date/Time
April 21, 2017 9:45 am

Date Received
04/21/2017

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	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
156-60-5	trans-1,2-Dichloroethylene	220		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 03:30	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	390	790	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 09:23	04/27/2017 16:46	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	13	25	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 03:30	BK

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	58.6		%	0.100	1	SM 2540G Certifications: CTDOH	04/27/2017 17:28	04/28/2017 12:12	TAJ

Sample Information

Client Sample ID: South-NW-Corner

York Sample ID: 17D0866-03

York Project (SDG) No.
17D0866

Client Project ID
140080114 Kings Plaza

Matrix
Soil

Collection Date/Time
April 21, 2017 1:15 pm

Date Received
04/21/2017

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	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 04:02	BK



Sample Information

Client Sample ID: South-NW-Corner

York Sample ID: 17D0866-03

York Project (SDG) No.

17D0866

Client Project ID

140080114 Kings Plaza

Matrix

Soil

Collection Date/Time

April 21, 2017 1:15 pm

Date Received

04/21/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
75-35-4	1,1-Dichloroethylene	12		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 04:02	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	100	210	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
78-93-3	2-Butanone	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
591-78-6	2-Hexanone	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
108-10-1	* 4-Methyl-2-pentanone	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH	04/26/2017 18:42	04/27/2017 04:02	BK
67-64-1	Acetone	93	SCAL- E	ug/kg dry	10	21	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
107-02-8	Acrolein	ND		ug/kg dry	10	21	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
71-43-2	Benzene	5.9	J	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK



Sample Information

Client Sample ID: South-NW-Corner

York Sample ID: 17D0866-03

York Project (SDG) No.
17D0866

Client Project ID
140080114 Kings Plaza

Matrix
Soil

Collection Date/Time
April 21, 2017 1:15 pm

Date Received
04/21/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-97-5	Bromochloromethane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
75-25-2	Bromoform	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
74-83-9	Bromomethane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
75-15-0	Carbon disulfide	26	CCV-E	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
75-00-3	Chloroethane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
67-66-3	Chloroform	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
74-87-3	Chloromethane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
156-59-2	cis-1,2-Dichloroethylene	18000		ug/kg dry	400	790	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 09:23	04/27/2017 17:18	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
110-82-7	Cyclohexane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
74-95-3	Dibromomethane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
79-20-9	Methyl acetate	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
75-09-2	Methylene chloride	ND		ug/kg dry	10	21	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK



Sample Information

Client Sample ID: South-NW-Corner

York Sample ID: 17D0866-03

York Project (SDG) No.

17D0866

Client Project ID

140080114 Kings Plaza

Matrix

Soil

Collection Date/Time

April 21, 2017 1:15 pm

Date Received

04/21/2017

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
104-51-8	n-Butylbenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
95-47-6	o-Xylene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	10	21	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
100-42-5	Styrene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	5.2	21	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
127-18-4	Tetrachloroethylene	5.8	J	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
108-88-3	Toluene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
156-60-5	trans-1,2-Dichloroethylene	990		ug/kg dry	400	790	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 09:23	04/27/2017 17:18	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:02	BK
75-01-4	Vinyl Chloride	5400		ug/kg dry	400	790	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 09:23	04/27/2017 17:18	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	16	31	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 04:02	BK

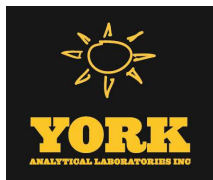
Total Solids

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	58.9		%	0.100	1	SM 2540G Certifications: CTDOH	04/27/2017 17:28	04/28/2017 12:12	TAJ



Sample Information

Client Sample ID: South-NE-Corner

York Sample ID: 17D0866-04

York Project (SDG) No.

17D0866

Client Project ID

140080114 Kings Plaza

Matrix

Soil

Collection Date/Time

April 21, 2017 1:45 pm

Date Received

04/21/2017

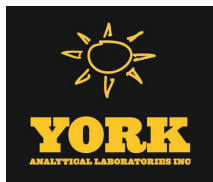
Volatile Organics, 8260 - Comprehensive

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	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 04:34	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
75-35-4	1,1-Dichloroethylene	18		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 04:34	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	90	180	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
78-93-3	2-Butanone	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
591-78-6	2-Hexanone	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
108-10-1	* 4-Methyl-2-pentanone	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH	04/26/2017 18:42	04/27/2017 04:34	BK



Sample Information

Client Sample ID: South-NE-Corner

York Sample ID: 17D0866-04

York Project (SDG) No.

17D0866

Client Project ID

140080114 Kings Plaza

Matrix

Soil

Collection Date/Time

April 21, 2017 1:45 pm

Date Received

04/21/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	63	SCAL-E	ug/kg dry	9.0	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
107-02-8	Acrolein	ND		ug/kg dry	9.0	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
71-43-2	Benzene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
75-25-2	Bromoform	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
74-83-9	Bromomethane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
75-15-0	Carbon disulfide	20	CCV-E	ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
75-00-3	Chloroethane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
67-66-3	Chloroform	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
74-87-3	Chloromethane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
156-59-2	cis-1,2-Dichloroethylene	52000		ug/kg dry	2600	5300	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/28/2017 08:00	04/28/2017 15:15	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
110-82-7	Cyclohexane	8.3	J	ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
74-95-3	Dibromomethane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK



Sample Information

Client Sample ID: South-NE-Corner

York Sample ID: 17D0866-04

York Project (SDG) No.
17D0866

Client Project ID
140080114 Kings Plaza

Matrix
Soil

Collection Date/Time
April 21, 2017 1:45 pm

Date Received
04/21/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
75-09-2	Methylene chloride	ND		ug/kg dry	9.0	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
95-47-6	o-Xylene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	9.0	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
100-42-5	Styrene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	4.5	18	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
127-18-4	Tetrachloroethylene	300000		ug/kg dry	11000	21000	2000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/01/2017 07:00	05/01/2017 13:02	BK
108-88-3	Toluene	41		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
156-60-5	trans-1,2-Dichloroethylene	1500		ug/kg dry	450	900	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 17:50	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
79-01-6	Trichloroethylene	200000		ug/kg dry	2600	5300	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/28/2017 08:00	04/28/2017 15:15	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	4.5	9.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 04:34	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	450	900	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 17:50	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	14	27	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 04:34	BK

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: South-NE-Corner

York Sample ID: 17D0866-04

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
17D0866	140080114 Kings Plaza	Soil	April 21, 2017 1:45 pm	04/21/2017

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	53.3		%	0.100	1	SM 2540G Certifications: CTDOH	04/27/2017 17:28	04/28/2017 12:12	TAJ

Sample Information

Client Sample ID: South-Bottom1

York Sample ID: 17D0866-05

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
17D0866	140080114 Kings Plaza	Soil	April 21, 2017 10:00 am	04/21/2017

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	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 05:07	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
75-35-4	1,1-Dichloroethylene	42		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 05:07	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK



Sample Information

Client Sample ID: South-Bottom1

York Sample ID: 17D0866-05

York Project (SDG) No.

17D0866

Client Project ID

140080114 Kings Plaza

Matrix

Soil

Collection Date/Time

April 21, 2017 10:00 am

Date Received

04/21/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	74	150	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
78-93-3	2-Butanone	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
591-78-6	2-Hexanone	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
108-10-1	* 4-Methyl-2-pentanone	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH	04/26/2017 18:42	04/27/2017 05:07	BK
67-64-1	Acetone	34	SCAL-E	ug/kg dry	7.4	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
107-02-8	Acrolein	ND		ug/kg dry	7.4	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
71-43-2	Benzene	21		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
75-25-2	Bromoform	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
74-83-9	Bromomethane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
75-15-0	Carbon disulfide	43	CCV-E	ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
75-00-3	Chloroethane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
67-66-3	Chloroform	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
74-87-3	Chloromethane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
156-59-2	cis-1,2-Dichloroethylene	55000		ug/kg dry	770	1500	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 09:23	04/27/2017 18:22	BK



Sample Information

Client Sample ID: South-Bottom1

York Sample ID: 17D0866-05

York Project (SDG) No.

17D0866

Client Project ID

140080114 Kings Plaza

Matrix

Soil

Collection Date/Time

April 21, 2017 10:00 am

Date Received

04/21/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
110-82-7	Cyclohexane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
74-95-3	Dibromomethane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
79-20-9	Methyl acetate	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
75-09-2	Methylene chloride	ND		ug/kg dry	7.4	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
95-47-6	o-Xylene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	7.4	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
100-42-5	Styrene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.7	15	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
127-18-4	Tetrachloroethylene	180		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
108-88-3	Toluene	61		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK



Sample Information

Client Sample ID: South-Bottom1

York Sample ID: 17D0866-05

York Project (SDG) No.
17D0866

Client Project ID
140080114 Kings Plaza

Matrix
Soil

Collection Date/Time
April 21, 2017 10:00 am

Date Received
04/21/2017

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
156-60-5	trans-1,2-Dichloroethylene	2000		ug/kg dry	770	1500	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 09:23	04/27/2017 18:22	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
79-01-6	Trichloroethylene	57		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.7	7.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 05:07	BK
75-01-4	Vinyl Chloride	3200		ug/kg dry	770	1500	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 09:23	04/27/2017 18:22	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	11	22	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 05:07	BK

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	63.1		%	0.100	1	SM 2540G Certifications: CTDOH	04/27/2017 17:28	04/28/2017 12:12	TAJ

Sample Information

Client Sample ID: South-Bottom2

York Sample ID: 17D0866-06

York Project (SDG) No.
17D0866

Client Project ID
140080114 Kings Plaza

Matrix
Soil

Collection Date/Time
April 21, 2017 10:30 am

Date Received
04/21/2017

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	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/27/2017 08:00	04/27/2017 18:54	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK



Sample Information

Client Sample ID: South-Bottom2

York Sample ID: 17D0866-06

York Project (SDG) No.
17D0866

Client Project ID
140080114 Kings Plaza

Matrix
Soil

Collection Date/Time
April 21, 2017 10:30 am

Date Received
04/21/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/27/2017 08:00	04/27/2017 18:54	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	6800	14000	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
78-93-3	2-Butanone	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
591-78-6	2-Hexanone	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
108-10-1	* 4-Methyl-2-pentanone	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH	04/27/2017 08:00	04/27/2017 18:54	BK
67-64-1	Acetone	ND		ug/kg dry	680	1400	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
107-02-8	Acrolein	ND		ug/kg dry	680	1400	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
71-43-2	Benzene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK



Sample Information

Client Sample ID: South-Bottom2

York Sample ID: 17D0866-06

York Project (SDG) No.
17D0866

Client Project ID
140080114 Kings Plaza

Matrix
Soil

Collection Date/Time
April 21, 2017 10:30 am

Date Received
04/21/2017

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
75-27-4	Bromodichloromethane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
75-25-2	Bromoform	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
74-83-9	Bromomethane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
75-00-3	Chloroethane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
67-66-3	Chloroform	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
74-87-3	Chloromethane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
156-59-2	cis-1,2-Dichloroethylene	36000		ug/kg dry	6800	14000	2000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	05/01/2017 13:34	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
110-82-7	Cyclohexane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
74-95-3	Dibromomethane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
79-20-9	Methyl acetate	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
75-09-2	Methylene chloride	ND		ug/kg dry	680	1400	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK



Sample Information

Client Sample ID: South-Bottom2

York Sample ID: 17D0866-06

York Project (SDG) No.
17D0866

Client Project ID
140080114 Kings Plaza

Matrix
Soil

Collection Date/Time
April 21, 2017 10:30 am

Date Received
04/21/2017

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
103-65-1	n-Propylbenzene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
95-47-6	o-Xylene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	680	1400	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
100-42-5	Styrene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
127-18-4	Tetrachloroethylene	310000		ug/kg dry	6800	14000	2000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	05/01/2017 13:34	BK
108-88-3	Toluene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
156-60-5	trans-1,2-Dichloroethylene	1100		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
79-01-6	Trichloroethylene	57000		ug/kg dry	6800	14000	2000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	05/01/2017 13:34	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	340	680	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/27/2017 08:00	04/27/2017 18:54	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	1000	2000	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/27/2017 08:00	04/27/2017 18:54	BK

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	65.2		%	0.100	1	SM 2540G Certifications: CTDOH	04/27/2017 17:28	04/28/2017 12:12	TAJ



Sample Information

Client Sample ID: DUP-1-4.21.17

York Sample ID: 17D0866-07

York Project (SDG) No.

17D0866

Client Project ID

140080114 Kings Plaza

Matrix

Soil

Collection Date/Time

April 21, 2017 3:00 pm

Date Received

04/21/2017

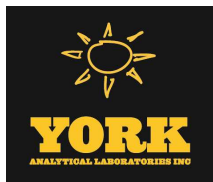
Volatile Organics, 8260 - Comprehensive

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	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 06:10	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
75-35-4	1,1-Dichloroethylene	53		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 06:10	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	78	160	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
78-93-3	2-Butanone	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
591-78-6	2-Hexanone	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
108-10-1	* 4-Methyl-2-pentanone	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH	04/26/2017 18:42	04/27/2017 06:10	BK



Sample Information

Client Sample ID: DUP-1-4.21.17

York Sample ID: 17D0866-07

York Project (SDG) No.

17D0866

Client Project ID

140080114 Kings Plaza

Matrix

Soil

Collection Date/Time

April 21, 2017 3:00 pm

Date Received

04/21/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	47	SCAL-E	ug/kg dry	7.8	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
107-02-8	Acrolein	ND		ug/kg dry	7.8	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
71-43-2	Benzene	23		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
75-25-2	Bromoform	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
74-83-9	Bromomethane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
75-15-0	Carbon disulfide	57	CCV-E	ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
75-00-3	Chloroethane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
67-66-3	Chloroform	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
74-87-3	Chloromethane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
156-59-2	cis-1,2-Dichloroethylene	50000		ug/kg dry	750	1500	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/28/2017 08:00	04/28/2017 16:19	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
110-82-7	Cyclohexane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
74-95-3	Dibromomethane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK



Sample Information

Client Sample ID: DUP-1-4.21.17

York Sample ID: 17D0866-07

York Project (SDG) No.
17D0866

Client Project ID
140080114 Kings Plaza

Matrix
Soil

Collection Date/Time
April 21, 2017 3:00 pm

Date Received
04/21/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
75-09-2	Methylene chloride	ND		ug/kg dry	7.8	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
95-47-6	o-Xylene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	7.8	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
100-42-5	Styrene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.9	16	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
127-18-4	Tetrachloroethylene	270		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
108-88-3	Toluene	70		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
156-60-5	trans-1,2-Dichloroethylene	1700		ug/kg dry	750	1500	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/28/2017 08:00	04/28/2017 16:19	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
79-01-6	Trichloroethylene	67		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/26/2017 18:42	04/27/2017 06:10	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	750	1500	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/28/2017 08:00	04/28/2017 16:19	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	12	23	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/26/2017 18:42	04/27/2017 06:10	BK

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: DUP-1-4.21.17

York Sample ID: 17D0866-07

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
17D0866	140080114 Kings Plaza	Soil	April 21, 2017 3:00 pm	04/21/2017

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	65.5		%	0.100	1	SM 2540G Certifications: CTDOH	04/27/2017 17:28	04/28/2017 12:12	TAJ

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 17D0866-08

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
17D0866	140080114 Kings Plaza	Water	April 21, 2017 12:00 am	04/21/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 17D0866-08

York Project (SDG) No.

17D0866

Client Project ID

140080114 Kings Plaza

Matrix

Water

Collection Date/Time

April 21, 2017 12:00 am

Date Received

04/21/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 17D0866-08

York Project (SDG) No.
17D0866

Client Project ID
140080114 Kings Plaza

Matrix
Water

Collection Date/Time
April 21, 2017 12:00 am

Date Received
04/21/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
75-09-2	Methylene chloride	1.4	J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	04/28/2017 07:08	04/28/2017 11:05	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	04/28/2017 07:08	04/28/2017 11:05	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 17D0866-08

York Project (SDG) No.
17D0866

Client Project ID
140080114 Kings Plaza

Matrix
Water

Collection Date/Time
April 21, 2017 12:00 am

Date Received
04/21/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	04/28/2017 07:08	04/28/2017 11:05	SS



Analytical Batch Summary

Batch ID: BD71282

Preparation Method: EPA 5035A

Prepared By: RDS

YORK Sample ID	Client Sample ID	Preparation Date
17D0866-01	South-SE-Corner	04/26/17
17D0866-02	South-SW-Corner	04/26/17
17D0866-03	South-NW-Corner	04/26/17
17D0866-04	South-NE-Corner	04/26/17
17D0866-04RE1	South-NE-Corner	04/26/17
17D0866-05	South-Bottom1	04/26/17
17D0866-07	DUP-1-4.21.17	04/26/17
BD71282-BLK1	Blank	04/26/17
BD71282-BS1	LCS	04/26/17
BD71282-BSD1	LCS Dup	04/26/17

Batch ID: BD71303

Preparation Method: EPA 5035A

Prepared By: RDS

YORK Sample ID	Client Sample ID	Preparation Date
17D0866-02RE1	South-SW-Corner	04/26/17
17D0866-03RE1	South-NW-Corner	04/26/17
17D0866-05RE1	South-Bottom1	04/26/17
BD71303-BLK1	Blank	04/27/17
BD71303-BLK2	Blank	04/27/17
BD71303-BS1	LCS	04/27/17
BD71303-BSD1	LCS Dup	04/27/17

Batch ID: BD71344

Preparation Method: % Solids Prep

Prepared By: TAJ

YORK Sample ID	Client Sample ID	Preparation Date
17D0866-01	South-SE-Corner	04/27/17
17D0866-02	South-SW-Corner	04/27/17
17D0866-03	South-NW-Corner	04/27/17
17D0866-04	South-NE-Corner	04/27/17
17D0866-05	South-Bottom1	04/27/17
17D0866-06	South-Bottom2	04/27/17
17D0866-07	DUP-1-4.21.17	04/27/17

Batch ID: BD71371

Preparation Method: EPA 5035A

Prepared By: RDS

YORK Sample ID	Client Sample ID	Preparation Date
17D0866-04RE2	South-NE-Corner	04/28/17
17D0866-06	South-Bottom2	04/27/17
17D0866-07RE1	DUP-1-4.21.17	04/28/17
BD71371-BLK1	Blank	04/28/17
BD71371-BLK2	Blank	04/28/17
BD71371-BS1	LCS	04/28/17
BD71371-BSD1	LCS Dup	04/28/17



Batch ID: BD71373

Preparation Method: EPA 5030B

Prepared By: RDS

YORK Sample ID	Client Sample ID	Preparation Date
17D0866-08	Trip Blank	04/28/17
BD71373-BLK1	Blank	04/28/17
BD71373-BS1	LCS	04/28/17
BD71373-BSD1	LCS Dup	04/28/17

Batch ID: BD71440

Preparation Method: EPA 5035A

Prepared By: RDS

YORK Sample ID	Client Sample ID	Preparation Date
17D0866-04RE3	South-NE-Corner	05/01/17
17D0866-06RE1	South-Bottom2	04/27/17
BD71440-BLK1	Blank	05/01/17
BD71440-BLK2	Blank	05/01/17
BD71440-BS1	LCS	05/01/17
BD71440-BSD1	LCS Dup	05/01/17



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
Batch BD71282 - EPA 5035A											
Blank (BD71282-BLK1)										Prepared & Analyzed: 04/26/2017	
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

Batch BD71282 - EPA 5035A

Blank (BD71282-BLK1)

Prepared & Analyzed: 04/26/2017

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	10	"
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	51.0	ug/L	50.0	102	77-125
Surrogate: Toluene-d8	47.6	"	50.0	95.3	85-120
Surrogate: p-Bromofluorobenzene	47.4	"	50.0	94.8	76-130

LCS (BD71282-BS1)

Prepared & Analyzed: 04/26/2017

1,1,1,2-Tetrachloroethane	49	ug/L	50.0	98.8	75-129
1,1,1-Trichloroethane	53	"	50.0	105	71-137
1,1,2,2-Tetrachloroethane	55	"	50.0	111	79-129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	61	"	50.0	122	58-146
1,1,2-Trichloroethane	54	"	50.0	107	83-123
1,1-Dichloroethane	55	"	50.0	109	75-130
1,1-Dichloroethylene	59	"	50.0	118	64-137
1,2,3-Trichlorobenzene	52	"	50.0	105	81-140
1,2,3-Trichloropropane	53	"	50.0	106	81-126
1,2,4-Trichlorobenzene	51	"	50.0	103	80-141
1,2,4-Trimethylbenzene	50	"	50.0	99.3	84-125
1,2-Dibromo-3-chloropropane	53	"	50.0	106	74-142
1,2-Dibromoethane	52	"	50.0	103	86-123
1,2-Dichlorobenzene	48	"	50.0	96.9	85-122
1,2-Dichloroethane	56	"	50.0	112	71-133
1,2-Dichloropropane	52	"	50.0	105	81-122
1,3,5-Trimethylbenzene	49	"	50.0	98.5	82-126
1,3-Dichlorobenzene	50	"	50.0	100	84-124
1,4-Dichlorobenzene	50	"	50.0	101	84-124
1,4-Dioxane	980	"	1000	98.5	10-228
2-Butanone	55	"	50.0	110	58-147
2-Hexanone	54	"	50.0	109	70-139
4-Methyl-2-pentanone	52	"	50.0	105	72-132
Acetone	55	"	50.0	109	36-155
Acrolein	63	"	50.0	125	10-238
Acrylonitrile	53	"	50.0	106	66-141
Benzene	56	"	50.0	112	77-127
Bromochloromethane	56	"	50.0	113	74-129
Bromodichloromethane	51	"	50.0	103	81-124



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

Batch BD71282 - EPA 5035A

LCS (BD71282-BS1)

Prepared & Analyzed: 04/26/2017

Bromoform	56		ug/L	50.0		111	80-136				
Bromomethane	46		"	50.0		91.2	32-177				
Carbon disulfide	61		"	50.0		122	10-136				
Carbon tetrachloride	55		"	50.0		110	66-143				
Chlorobenzene	52		"	50.0		103	86-120				
Chloroethane	56		"	50.0		113	51-142				
Chloroform	56		"	50.0		113	76-131				
Chloromethane	50		"	50.0		99.2	49-132				
cis-1,2-Dichloroethylene	55		"	50.0		109	74-132				
cis-1,3-Dichloropropylene	54		"	50.0		108	81-129				
Cyclohexane	55		"	50.0		109	70-130				
Dibromochloromethane	53		"	50.0		106	10-200				
Dibromomethane	52		"	50.0		104	83-124				
Dichlorodifluoromethane	41		"	50.0		81.8	28-158				
Ethyl Benzene	53		"	50.0		106	84-125				
Hexachlorobutadiene	54		"	50.0		109	83-133				
Isopropylbenzene	53		"	50.0		106	81-127				
Methyl acetate	55		"	50.0		110	41-143				
Methyl tert-butyl ether (MTBE)	54		"	50.0		107	74-131				
Methylcyclohexane	51		"	50.0		103	70-130				
Methylene chloride	60		"	50.0		119	57-141				
n-Butylbenzene	50		"	50.0		99.4	80-130				
n-Propylbenzene	53		"	50.0		106	74-136				
o-Xylene	53		"	50.0		106	83-123				
p- & m- Xylenes	99		"	100		98.6	82-128				
p-Isopropyltoluene	51		"	50.0		101	85-125				
sec-Butylbenzene	52		"	50.0		104	83-125				
Styrene	49		"	50.0		99.0	86-126				
tert-Butyl alcohol (TBA)	52		"	50.0		104	70-130				
tert-Butylbenzene	49		"	50.0		98.7	80-127				
Tetrachloroethylene	49		"	50.0		97.3	80-129				
Toluene	51		"	50.0		103	85-121				
trans-1,2-Dichloroethylene	54		"	50.0		107	72-132				
trans-1,3-Dichloropropylene	54		"	50.0		109	78-132				
Trichloroethylene	52		"	50.0		105	84-123				
Trichlorofluoromethane	54		"	50.0		109	62-140				
Vinyl Chloride	51		"	50.0		103	52-130				
Surrogate: 1,2-Dichloroethane-d4	48.0		"	50.0		96.0	77-125				
Surrogate: Toluene-d8	48.0		"	50.0		95.9	85-120				
Surrogate: p-Bromofluorobenzene	53.1		"	50.0		106	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD71282 - EPA 5035A											
LCS Dup (BD71282-BSD1)						Prepared & Analyzed: 04/26/2017					
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		102	75-129		3.23	30	
1,1,1-Trichloroethane	55		"	50.0		110	71-137		4.06	30	
1,1,2,2-Tetrachloroethane	56		"	50.0		113	79-129		1.95	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	57		"	50.0		114	58-146		6.91	30	
1,1,2-Trichloroethane	53		"	50.0		105	83-123		2.26	30	
1,1-Dichloroethane	56		"	50.0		111	75-130		1.83	30	
1,1-Dichloroethylene	57		"	50.0		114	64-137		2.79	30	
1,2,3-Trichlorobenzene	54		"	50.0		108	81-140		3.55	30	
1,2,3-Trichloropropane	55		"	50.0		110	81-126		3.65	30	
1,2,4-Trichlorobenzene	52		"	50.0		103	80-141		0.446	30	
1,2,4-Trimethylbenzene	51		"	50.0		102	84-125		2.57	30	
1,2-Dibromo-3-chloropropane	58		"	50.0		116	74-142		9.25	30	
1,2-Dibromoethane	54		"	50.0		107	86-123		4.14	30	
1,2-Dichlorobenzene	51		"	50.0		101	85-122		4.38	30	
1,2-Dichloroethane	57		"	50.0		113	71-133		1.32	30	
1,2-Dichloropropane	54		"	50.0		108	81-122		3.53	30	
1,3,5-Trimethylbenzene	50		"	50.0		100	82-126		1.53	30	
1,3-Dichlorobenzene	49		"	50.0		99.0	84-124		1.31	30	
1,4-Dichlorobenzene	51		"	50.0		102	84-124		1.15	30	
1,4-Dioxane	910		"	1000		91.4	10-228		7.46	30	
2-Butanone	54		"	50.0		109	58-147		1.63	30	
2-Hexanone	55		"	50.0		110	70-139		1.32	30	
4-Methyl-2-pentanone	54		"	50.0		108	72-132		2.59	30	
Acetone	51		"	50.0		103	36-155		5.86	30	
Acrolein	59		"	50.0		119	10-238		5.21	30	
Acrylonitrile	56		"	50.0		111	66-141		5.08	30	
Benzene	56		"	50.0		111	77-127		0.0897	30	
Bromochloromethane	57		"	50.0		115	74-129		1.63	30	
Bromodichloromethane	54		"	50.0		108	81-124		4.54	30	
Bromoform	58		"	50.0		116	80-136		3.89	30	
Bromomethane	45		"	50.0		90.5	32-177		0.748	30	
Carbon disulfide	58		"	50.0		116	10-136		4.62	30	
Carbon tetrachloride	52		"	50.0		105	66-143		4.48	30	
Chlorobenzene	49		"	50.0		98.8	86-120		4.36	30	
Chloroethane	56		"	50.0		111	51-142		1.45	30	
Chloroform	57		"	50.0		114	76-131		1.39	30	
Chloromethane	50		"	50.0		99.0	49-132		0.242	30	
cis-1,2-Dichloroethylene	54		"	50.0		109	74-132		0.220	30	
cis-1,3-Dichloropropylene	52		"	50.0		103	81-129		3.90	30	
Cyclohexane	54		"	50.0		108	70-130		0.699	30	
Dibromochloromethane	51		"	50.0		103	10-200		2.74	30	
Dibromomethane	53		"	50.0		106	83-124		1.29	30	
Dichlorodifluoromethane	39		"	50.0		78.5	28-158		4.14	30	
Ethyl Benzene	52		"	50.0		104	84-125		1.91	30	
Hexachlorobutadiene	54		"	50.0		108	83-133		0.295	30	
Isopropylbenzene	54		"	50.0		108	81-127		2.52	30	
Methyl acetate	57		"	50.0		113	41-143		3.34	30	
Methyl tert-butyl ether (MTBE)	54		"	50.0		108	74-131		1.12	30	
Methylcyclohexane	53		"	50.0		106	70-130		2.97	30	
Methylene chloride	58		"	50.0		116	57-141		3.20	30	
n-Butylbenzene	50		"	50.0		101	80-130		1.34	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

Batch BD71282 - EPA 5035A

LCS Dup (BD71282-BSD1)

Prepared & Analyzed: 04/26/2017

n-Propylbenzene	54		ug/L	50.0		109	74-136		2.48	30	
o-Xylene	52		"	50.0		105	83-123		0.779	30	
p- & m- Xylenes	99		"	100		98.9	82-128		0.213	30	
p-Isopropyltoluene	51		"	50.0		103	85-125		1.41	30	
sec-Butylbenzene	53		"	50.0		106	83-125		2.49	30	
Styrene	50		"	50.0		100	86-126		1.31	30	
tert-Butyl alcohol (TBA)	60		"	50.0		119	70-130		14.1	30	
tert-Butylbenzene	52		"	50.0		103	80-127		4.69	30	
Tetrachloroethylene	49		"	50.0		97.6	80-129		0.308	30	
Toluene	51		"	50.0		102	85-121		0.703	30	
trans-1,2-Dichloroethylene	53		"	50.0		105	72-132		1.84	30	
trans-1,3-Dichloropropylene	55		"	50.0		110	78-132		0.916	30	
Trichloroethylene	51		"	50.0		102	84-123		2.44	30	
Trichlorofluoromethane	54		"	50.0		108	62-140		0.777	30	
Vinyl Chloride	51		"	50.0		103	52-130		0.00	30	
Surrogate: 1,2-Dichloroethane-d4	46.7		"	50.0		93.4	77-125				
Surrogate: Toluene-d8	46.6		"	50.0		93.2	85-120				
Surrogate: p-Bromofluorobenzene	53.1		"	50.0		106	76-130				

Batch BD71303 - EPA 5035A

Blank (BD71303-BLK1)

Prepared & Analyzed: 04/27/2017

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	7.8	10	"
Acrolein	ND	10	"
Acrylonitrile	ND	5.0	"
Benzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"



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

Batch BD71303 - EPA 5035A

Blank (BD71303-BLK1)

Prepared & Analyzed: 04/27/2017

Bromoform	ND	5.0	ug/kg wet
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	"
n-Butylbenzene	ND	5.0	"
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	47.9	ug/L	50.0	95.8	77-125
Surrogate: Toluene-d8	48.6	"	50.0	97.3	85-120
Surrogate: p-Bromofluorobenzene	47.7	"	50.0	95.5	76-130



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BD71303 - EPA 5035A

Blank (BD71303-BLK2)

Prepared & Analyzed: 04/27/2017

1,1,1,2-Tetrachloroethane	ND	500	ug/kg wet
1,1,1-Trichloroethane	ND	500	"
1,1,2,2-Tetrachloroethane	ND	500	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	500	"
1,1,2-Trichloroethane	ND	500	"
1,1-Dichloroethane	ND	500	"
1,1-Dichloroethylene	ND	500	"
1,2,3-Trichlorobenzene	ND	500	"
1,2,3-Trichloropropane	ND	500	"
1,2,4-Trichlorobenzene	ND	500	"
1,2,4-Trimethylbenzene	ND	500	"
1,2-Dibromo-3-chloropropane	ND	500	"
1,2-Dibromoethane	ND	500	"
1,2-Dichlorobenzene	ND	500	"
1,2-Dichloroethane	ND	500	"
1,2-Dichloropropane	ND	500	"
1,3,5-Trimethylbenzene	ND	500	"
1,3-Dichlorobenzene	ND	500	"
1,4-Dichlorobenzene	ND	500	"
1,4-Dioxane	ND	10000	"
2-Butanone	ND	500	"
2-Hexanone	ND	500	"
4-Methyl-2-pentanone	ND	500	"
Acetone	ND	1000	"
Acrolein	ND	1000	"
Acrylonitrile	ND	500	"
Benzene	ND	500	"
Bromochloromethane	ND	500	"
Bromodichloromethane	ND	500	"
Bromoform	ND	500	"
Bromomethane	ND	500	"
Carbon disulfide	ND	500	"
Carbon tetrachloride	ND	500	"
Chlorobenzene	ND	500	"
Chloroethane	ND	500	"
Chloroform	ND	500	"
Chloromethane	ND	500	"
cis-1,2-Dichloroethylene	ND	500	"
cis-1,3-Dichloropropylene	ND	500	"
Cyclohexane	ND	500	"
Dibromochloromethane	ND	500	"
Dibromomethane	ND	500	"
Dichlorodifluoromethane	ND	500	"
Ethyl Benzene	ND	500	"
Hexachlorobutadiene	ND	500	"
Isopropylbenzene	ND	500	"
Methyl acetate	ND	500	"
Methyl tert-butyl ether (MTBE)	ND	500	"
Methylcyclohexane	ND	500	"
Methylene chloride	ND	1000	"
n-Butylbenzene	ND	500	"



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
Batch BD71303 - EPA 5035A											
Blank (BD71303-BLK2)											
Prepared & Analyzed: 04/27/2017											
n-Propylbenzene	ND	500	ug/kg wet								
o-Xylene	ND	500	"								
p- & m- Xylenes	ND	1000	"								
p-Isopropyltoluene	ND	500	"								
sec-Butylbenzene	ND	500	"								
Styrene	ND	500	"								
tert-Butyl alcohol (TBA)	ND	500	"								
tert-Butylbenzene	ND	500	"								
Tetrachloroethylene	ND	500	"								
Toluene	ND	500	"								
trans-1,2-Dichloroethylene	ND	500	"								
trans-1,3-Dichloropropylene	ND	500	"								
Trichloroethylene	ND	500	"								
Trichlorofluoromethane	ND	500	"								
Vinyl Chloride	ND	500	"								
Xylenes, Total	ND	1500	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	49.3		ug/L	50.0		98.6	77-125				
<i>Surrogate: Toluene-d8</i>	47.6		"	50.0		95.2	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	47.7		"	50.0		95.4	76-130				
LCS (BD71303-BS1)											
Prepared & Analyzed: 04/27/2017											
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		105	75-129				
1,1,1-Trichloroethane	57		"	50.0		114	71-137				
1,1,2,2-Tetrachloroethane	58		"	50.0		115	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	63		"	50.0		126	58-146				
1,1,2-Trichloroethane	56		"	50.0		112	83-123				
1,1-Dichloroethane	57		"	50.0		114	75-130				
1,1-Dichloroethylene	60		"	50.0		120	64-137				
1,2,3-Trichlorobenzene	58		"	50.0		116	81-140				
1,2,3-Trichloropropane	57		"	50.0		114	81-126				
1,2,4-Trichlorobenzene	62		"	50.0		124	80-141				
1,2,4-Trimethylbenzene	54		"	50.0		108	84-125				
1,2-Dibromo-3-chloropropane	57		"	50.0		114	74-142				
1,2-Dibromoethane	53		"	50.0		106	86-123				
1,2-Dichlorobenzene	52		"	50.0		103	85-122				
1,2-Dichloroethane	57		"	50.0		114	71-133				
1,2-Dichloropropane	54		"	50.0		108	81-122				
1,3,5-Trimethylbenzene	53		"	50.0		105	82-126				
1,3-Dichlorobenzene	53		"	50.0		107	84-124				
1,4-Dichlorobenzene	52		"	50.0		104	84-124				
1,4-Dioxane	970		"	1000		97.2	10-228				
2-Butanone	56		"	50.0		113	58-147				
2-Hexanone	56		"	50.0		112	70-139				
4-Methyl-2-pentanone	54		"	50.0		108	72-132				
Acetone	54		"	50.0		108	36-155				
Acrolein	53		"	50.0		106	10-238				
Acrylonitrile	53		"	50.0		105	66-141				
Benzene	57		"	50.0		115	77-127				
Bromochloromethane	58		"	50.0		116	74-129				
Bromodichloromethane	54		"	50.0		109	81-124				
Bromoform	57		"	50.0		113	80-136				



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

Batch BD71303 - EPA 5035A

LCS (BD71303-BS1)

Prepared & Analyzed: 04/27/2017

Bromomethane	49		ug/L	50.0		98.4	32-177				
Carbon disulfide	62		"	50.0		124	10-136				
Carbon tetrachloride	56		"	50.0		113	66-143				
Chlorobenzene	53		"	50.0		106	86-120				
Chloroethane	45		"	50.0		90.2	51-142				
Chloroform	59		"	50.0		118	76-131				
Chloromethane	53		"	50.0		106	49-132				
cis-1,2-Dichloroethylene	56		"	50.0		112	74-132				
cis-1,3-Dichloropropylene	56		"	50.0		112	81-129				
Cyclohexane	57		"	50.0		114	70-130				
Dibromochloromethane	54		"	50.0		108	10-200				
Dibromomethane	53		"	50.0		106	83-124				
Dichlorodifluoromethane	43		"	50.0		85.5	28-158				
Ethyl Benzene	54		"	50.0		109	84-125				
Hexachlorobutadiene	56		"	50.0		113	83-133				
Isopropylbenzene	57		"	50.0		113	81-127				
Methyl acetate	56		"	50.0		112	41-143				
Methyl tert-butyl ether (MTBE)	54		"	50.0		108	74-131				
Methylcyclohexane	55		"	50.0		109	70-130				
Methylene chloride	59		"	50.0		118	57-141				
n-Butylbenzene	57		"	50.0		113	80-130				
n-Propylbenzene	58		"	50.0		117	74-136				
o-Xylene	57		"	50.0		113	83-123				
p- & m- Xylenes	110		"	100		106	82-128				
p-Isopropyltoluene	54		"	50.0		109	85-125				
sec-Butylbenzene	55		"	50.0		109	83-125				
Styrene	53		"	50.0		105	86-126				
tert-Butyl alcohol (TBA)	54		"	50.0		109	70-130				
tert-Butylbenzene	54		"	50.0		107	80-127				
Tetrachloroethylene	53		"	50.0		105	80-129				
Toluene	54		"	50.0		108	85-121				
trans-1,2-Dichloroethylene	56		"	50.0		112	72-132				
trans-1,3-Dichloropropylene	58		"	50.0		117	78-132				
Trichloroethylene	54		"	50.0		109	84-123				
Trichlorofluoromethane	58		"	50.0		116	62-140				
Vinyl Chloride	53		"	50.0		107	52-130				
Surrogate: 1,2-Dichloroethane-d4	47.1		"	50.0		94.1	77-125				
Surrogate: Toluene-d8	47.3		"	50.0		94.6	85-120				
Surrogate: p-Bromofluorobenzene	52.8		"	50.0		106	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD71303 - EPA 5035A											
LCS Dup (BD71303-BSD1)						Prepared & Analyzed: 04/27/2017					
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		105	75-129		0.0764	30	
1,1,1-Trichloroethane	57		"	50.0		115	71-137		0.682	30	
1,1,2,2-Tetrachloroethane	55		"	50.0		111	79-129		3.97	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	63		"	50.0		126	58-146		0.428	30	
1,1,2-Trichloroethane	54		"	50.0		108	83-123		3.24	30	
1,1-Dichloroethane	59		"	50.0		118	75-130		3.43	30	
1,1-Dichloroethylene	61		"	50.0		122	64-137		2.00	30	
1,2,3-Trichlorobenzene	59		"	50.0		117	81-140		0.943	30	
1,2,3-Trichloropropane	54		"	50.0		108	81-126		5.28	30	
1,2,4-Trichlorobenzene	62		"	50.0		124	80-141		0.0969	30	
1,2,4-Trimethylbenzene	54		"	50.0		107	84-125		0.130	30	
1,2-Dibromo-3-chloropropane	54		"	50.0		108	74-142		5.07	30	
1,2-Dibromoethane	53		"	50.0		106	86-123		0.0378	30	
1,2-Dichlorobenzene	53		"	50.0		105	85-122		1.73	30	
1,2-Dichloroethane	57		"	50.0		114	71-133		0.860	30	
1,2-Dichloropropane	56		"	50.0		112	81-122		3.66	30	
1,3,5-Trimethylbenzene	52		"	50.0		105	82-126		0.648	30	
1,3-Dichlorobenzene	55		"	50.0		109	84-124		2.57	30	
1,4-Dichlorobenzene	54		"	50.0		109	84-124		4.60	30	
1,4-Dioxane	1000		"	1000		104	10-228		7.06	30	
2-Butanone	60		"	50.0		119	58-147		5.55	30	
2-Hexanone	55		"	50.0		110	70-139		1.66	30	
4-Methyl-2-pentanone	54		"	50.0		108	72-132		0.407	30	
Acetone	58		"	50.0		117	36-155		7.64	30	
Acrolein	58		"	50.0		115	10-238		8.25	30	
Acrylonitrile	52		"	50.0		104	66-141		0.918	30	
Benzene	60		"	50.0		119	77-127		3.93	30	
Bromochloromethane	61		"	50.0		122	74-129		4.62	30	
Bromodichloromethane	54		"	50.0		107	81-124		1.09	30	
Bromoform	58		"	50.0		116	80-136		2.13	30	
Bromomethane	29		"	50.0		57.8	32-177		52.0	30	Non-dir.
Carbon disulfide	64		"	50.0		129	10-136		3.35	30	
Carbon tetrachloride	59		"	50.0		118	66-143		4.59	30	
Chlorobenzene	54		"	50.0		109	86-120		2.30	30	
Chloroethane	48		"	50.0		96.7	51-142		6.93	30	
Chloroform	59		"	50.0		119	76-131		0.761	30	
Chloromethane	53		"	50.0		107	49-132		0.395	30	
cis-1,2-Dichloroethylene	60		"	50.0		120	74-132		6.80	30	
cis-1,3-Dichloropropylene	56		"	50.0		111	81-129		0.664	30	
Cyclohexane	59		"	50.0		117	70-130		2.44	30	
Dibromochloromethane	54		"	50.0		108	10-200		0.0742	30	
Dibromomethane	56		"	50.0		112	83-124		5.69	30	
Dichlorodifluoromethane	43		"	50.0		85.1	28-158		0.422	30	
Ethyl Benzene	56		"	50.0		112	84-125		2.29	30	
Hexachlorobutadiene	57		"	50.0		114	83-133		1.27	30	
Isopropylbenzene	57		"	50.0		114	81-127		0.388	30	
Methyl acetate	60		"	50.0		119	41-143		6.26	30	
Methyl tert-butyl ether (MTBE)	55		"	50.0		109	74-131		1.36	30	
Methylcyclohexane	56		"	50.0		111	70-130		1.60	30	
Methylene chloride	61		"	50.0		122	57-141		3.24	30	
n-Butylbenzene	57		"	50.0		114	80-130		0.422	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

Batch BD71303 - EPA 5035A

LCS Dup (BD71303-BSD1)

Prepared & Analyzed: 04/27/2017

n-Propylbenzene	58		ug/L	50.0		115	74-136		1.17	30
o-Xylene	56		"	50.0		112	83-123		1.21	30
p- & m- Xylenes	110		"	100		107	82-128		0.366	30
p-Isopropyltoluene	56		"	50.0		111	85-125		2.49	30
sec-Butylbenzene	56		"	50.0		112	83-125		2.31	30
Styrene	53		"	50.0		105	86-126		0.114	30
tert-Butyl alcohol (TBA)	53		"	50.0		106	70-130		2.64	30
tert-Butylbenzene	54		"	50.0		108	80-127		1.13	30
Tetrachloroethylene	51		"	50.0		101	80-129		3.96	30
Toluene	53		"	50.0		107	85-121		0.819	30
trans-1,2-Dichloroethylene	58		"	50.0		116	72-132		3.77	30
trans-1,3-Dichloropropylene	58		"	50.0		116	78-132		0.516	30
Trichloroethylene	54		"	50.0		107	84-123		1.58	30
Trichlorofluoromethane	59		"	50.0		118	62-140		1.71	30
Vinyl Chloride	56		"	50.0		113	52-130		5.37	30
Surrogate: 1,2-Dichloroethane-d4	49.3		"	50.0		98.6	77-125			
Surrogate: Toluene-d8	47.2		"	50.0		94.5	85-120			
Surrogate: p-Bromofluorobenzene	53.0		"	50.0		106	76-130			

Batch BD71371 - EPA 5035A

Blank (BD71371-BLK1)

Prepared & Analyzed: 04/28/2017

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	"



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

Batch BD71371 - EPA 5035A

Blank (BD71371-BLK1)

Prepared & Analyzed: 04/28/2017

Bromoform	ND	5.0	ug/kg wet								
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	"								
n-Butylbenzene	ND	5.0	"								
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	51.2		ug/L	50.0		102	77-125				
Surrogate: Toluene-d8	48.6		"	50.0		97.3	85-120				
Surrogate: p-Bromofluorobenzene	48.7		"	50.0		97.4	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BD71371 - EPA 5035A

Blank (BD71371-BLK2)

Prepared & Analyzed: 04/28/2017

1,1,1,2-Tetrachloroethane	ND	500	ug/kg wet
1,1,1-Trichloroethane	ND	500	"
1,1,2,2-Tetrachloroethane	ND	500	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	500	"
1,1,2-Trichloroethane	ND	500	"
1,1-Dichloroethane	ND	500	"
1,1-Dichloroethylene	ND	500	"
1,2,3-Trichlorobenzene	ND	500	"
1,2,3-Trichloropropane	ND	500	"
1,2,4-Trichlorobenzene	ND	500	"
1,2,4-Trimethylbenzene	ND	500	"
1,2-Dibromo-3-chloropropane	ND	500	"
1,2-Dibromoethane	ND	500	"
1,2-Dichlorobenzene	ND	500	"
1,2-Dichloroethane	ND	500	"
1,2-Dichloropropane	ND	500	"
1,3,5-Trimethylbenzene	ND	500	"
1,3-Dichlorobenzene	ND	500	"
1,4-Dichlorobenzene	ND	500	"
1,4-Dioxane	ND	10000	"
2-Butanone	ND	500	"
2-Hexanone	ND	500	"
4-Methyl-2-pentanone	ND	500	"
Acetone	ND	1000	"
Acrolein	ND	1000	"
Acrylonitrile	ND	500	"
Benzene	ND	500	"
Bromochloromethane	ND	500	"
Bromodichloromethane	ND	500	"
Bromoform	ND	500	"
Bromomethane	ND	500	"
Carbon disulfide	ND	500	"
Carbon tetrachloride	ND	500	"
Chlorobenzene	ND	500	"
Chloroethane	ND	500	"
Chloroform	ND	500	"
Chloromethane	ND	500	"
cis-1,2-Dichloroethylene	ND	500	"
cis-1,3-Dichloropropylene	ND	500	"
Cyclohexane	ND	500	"
Dibromochloromethane	ND	500	"
Dibromomethane	ND	500	"
Dichlorodifluoromethane	ND	500	"
Ethyl Benzene	ND	500	"
Hexachlorobutadiene	ND	500	"
Isopropylbenzene	ND	500	"
Methyl acetate	ND	500	"
Methyl tert-butyl ether (MTBE)	ND	500	"
Methylcyclohexane	ND	500	"
Methylene chloride	ND	1000	"
n-Butylbenzene	ND	500	"



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

Batch BD71371 - EPA 5035A

Blank (BD71371-BLK2)

Prepared & Analyzed: 04/28/2017

n-Propylbenzene	ND	500	ug/kg wet
o-Xylene	ND	500	"
p- & m- Xylenes	ND	1000	"
p-Isopropyltoluene	ND	500	"
sec-Butylbenzene	ND	500	"
Styrene	ND	500	"
tert-Butyl alcohol (TBA)	ND	500	"
tert-Butylbenzene	ND	500	"
Tetrachloroethylene	ND	500	"
Toluene	ND	500	"
trans-1,2-Dichloroethylene	ND	500	"
trans-1,3-Dichloropropylene	ND	500	"
Trichloroethylene	ND	500	"
Trichlorofluoromethane	ND	500	"
Vinyl Chloride	ND	500	"
Xylenes, Total	ND	1500	"

Surrogate: 1,2-Dichloroethane-d4	48.1	ug/L	50.0	96.3	77-125
Surrogate: Toluene-d8	48.6	"	50.0	97.1	85-120
Surrogate: p-Bromofluorobenzene	49.3	"	50.0	98.5	76-130

LCS (BD71371-BS1)

Prepared & Analyzed: 04/28/2017

1,1,1,2-Tetrachloroethane	53	ug/L	50.0	106	75-129
1,1,1-Trichloroethane	60	"	50.0	120	71-137
1,1,2,2-Tetrachloroethane	56	"	50.0	111	79-129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55	"	50.0	111	58-146
1,1,2-Trichloroethane	56	"	50.0	112	83-123
1,1-Dichloroethane	60	"	50.0	120	75-130
1,1-Dichloroethylene	54	"	50.0	108	64-137
1,2,3-Trichlorobenzene	60	"	50.0	119	81-140
1,2,3-Trichloropropane	55	"	50.0	109	81-126
1,2,4-Trichlorobenzene	59	"	50.0	118	80-141
1,2,4-Trimethylbenzene	55	"	50.0	109	84-125
1,2-Dibromo-3-chloropropane	58	"	50.0	116	74-142
1,2-Dibromoethane	57	"	50.0	113	86-123
1,2-Dichlorobenzene	53	"	50.0	107	85-122
1,2-Dichloroethane	57	"	50.0	114	71-133
1,2-Dichloropropane	57	"	50.0	114	81-122
1,3,5-Trimethylbenzene	56	"	50.0	112	82-126
1,3-Dichlorobenzene	55	"	50.0	109	84-124
1,4-Dichlorobenzene	56	"	50.0	112	84-124
1,4-Dioxane	1100	"	1000	115	10-228
2-Butanone	59	"	50.0	117	58-147
2-Hexanone	54	"	50.0	108	70-139
4-Methyl-2-pentanone	55	"	50.0	110	72-132
Acetone	53	"	50.0	105	36-155
Acrolein	41	"	50.0	81.5	10-238
Acrylonitrile	57	"	50.0	114	66-141
Benzene	61	"	50.0	121	77-127
Bromochloromethane	62	"	50.0	125	74-129
Bromodichloromethane	57	"	50.0	114	81-124
Bromoform	57	"	50.0	114	80-136



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

Batch BD71371 - EPA 5035A

LCS (BD71371-BS1)

Prepared & Analyzed: 04/28/2017

Bromomethane	41		ug/L	50.0		82.5	32-177				
Carbon disulfide	54		"	50.0		109	10-136				
Carbon tetrachloride	60		"	50.0		120	66-143				
Chlorobenzene	55		"	50.0		109	86-120				
Chloroethane	35		"	50.0		70.4	51-142				
Chloroform	61		"	50.0		122	76-131				
Chloromethane	45		"	50.0		89.8	49-132				
cis-1,2-Dichloroethylene	60		"	50.0		119	74-132				
cis-1,3-Dichloropropylene	59		"	50.0		117	81-129				
Cyclohexane	59		"	50.0		117	70-130				
Dibromochloromethane	55		"	50.0		110	10-200				
Dibromomethane	56		"	50.0		111	83-124				
Dichlorodifluoromethane	35		"	50.0		69.8	28-158				
Ethyl Benzene	56		"	50.0		113	84-125				
Hexachlorobutadiene	55		"	50.0		110	83-133				
Isopropylbenzene	59		"	50.0		118	81-127				
Methyl acetate	48		"	50.0		95.4	41-143				
Methyl tert-butyl ether (MTBE)	58		"	50.0		117	74-131				
Methylcyclohexane	57		"	50.0		115	70-130				
Methylene chloride	56		"	50.0		111	57-141				
n-Butylbenzene	58		"	50.0		116	80-130				
n-Propylbenzene	58		"	50.0		116	74-136				
o-Xylene	56		"	50.0		112	83-123				
p- & m- Xylenes	110		"	100		109	82-128				
p-Isopropyltoluene	56		"	50.0		112	85-125				
sec-Butylbenzene	58		"	50.0		116	83-125				
Styrene	55		"	50.0		110	86-126				
tert-Butyl alcohol (TBA)	52		"	50.0		105	70-130				
tert-Butylbenzene	56		"	50.0		112	80-127				
Tetrachloroethylene	55		"	50.0		110	80-129				
Toluene	56		"	50.0		112	85-121				
trans-1,2-Dichloroethylene	59		"	50.0		117	72-132				
trans-1,3-Dichloropropylene	58		"	50.0		117	78-132				
Trichloroethylene	59		"	50.0		118	84-123				
Trichlorofluoromethane	53		"	50.0		106	62-140				
Vinyl Chloride	47		"	50.0		93.3	52-130				
Surrogate: 1,2-Dichloroethane-d4	46.4		"	50.0		92.9	77-125				
Surrogate: Toluene-d8	47.4		"	50.0		94.9	85-120				
Surrogate: p-Bromofluorobenzene	52.8		"	50.0		106	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD71371 - EPA 5035A											
LCS Dup (BD71371-BSD1)						Prepared & Analyzed: 04/28/2017					
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		104	75-129		1.92	30	
1,1,1-Trichloroethane	59		"	50.0		117	71-137		2.26	30	
1,1,2,2-Tetrachloroethane	57		"	50.0		114	79-129		1.92	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53		"	50.0		106	58-146		4.55	30	
1,1,2-Trichloroethane	55		"	50.0		111	83-123		1.31	30	
1,1-Dichloroethane	59		"	50.0		117	75-130		2.44	30	
1,1-Dichloroethylene	52		"	50.0		105	64-137		2.85	30	
1,2,3-Trichlorobenzene	55		"	50.0		111	81-140		7.13	30	
1,2,3-Trichloropropane	53		"	50.0		107	81-126		2.30	30	
1,2,4-Trichlorobenzene	59		"	50.0		119	80-141		0.320	30	
1,2,4-Trimethylbenzene	54		"	50.0		108	84-125		1.34	30	
1,2-Dibromo-3-chloropropane	55		"	50.0		110	74-142		5.43	30	
1,2-Dibromoethane	54		"	50.0		109	86-123		3.73	30	
1,2-Dichlorobenzene	53		"	50.0		106	85-122		1.26	30	
1,2-Dichloroethane	57		"	50.0		113	71-133		0.512	30	
1,2-Dichloropropane	56		"	50.0		112	81-122		1.82	30	
1,3,5-Trimethylbenzene	55		"	50.0		110	82-126		2.10	30	
1,3-Dichlorobenzene	53		"	50.0		107	84-124		2.09	30	
1,4-Dichlorobenzene	54		"	50.0		108	84-124		3.88	30	
1,4-Dioxane	1200		"	1000		116	10-228		1.20	30	
2-Butanone	60		"	50.0		119	58-147		1.89	30	
2-Hexanone	53		"	50.0		106	70-139		1.29	30	
4-Methyl-2-pentanone	53		"	50.0		106	72-132		3.04	30	
Acetone	54		"	50.0		107	36-155		1.75	30	
Acrolein	46		"	50.0		91.7	10-238		11.8	30	
Acrylonitrile	56		"	50.0		112	66-141		1.74	30	
Benzene	58		"	50.0		117	77-127		3.75	30	
Bromochloromethane	59		"	50.0		119	74-129		4.68	30	
Bromodichloromethane	53		"	50.0		106	81-124		7.15	30	
Bromoform	57		"	50.0		114	80-136		0.0351	30	
Bromomethane	40		"	50.0		80.2	32-177		2.73	30	
Carbon disulfide	53		"	50.0		107	10-136		1.69	30	
Carbon tetrachloride	56		"	50.0		112	66-143		6.75	30	
Chlorobenzene	53		"	50.0		106	86-120		2.63	30	
Chloroethane	51		"	50.0		103	51-142		37.2	30	Non-dir.
Chloroform	59		"	50.0		119	76-131		2.23	30	
Chloromethane	44		"	50.0		87.5	49-132		2.66	30	
cis-1,2-Dichloroethylene	57		"	50.0		115	74-132		4.05	30	
cis-1,3-Dichloropropylene	56		"	50.0		113	81-129		3.95	30	
Cyclohexane	58		"	50.0		116	70-130		0.839	30	
Dibromochloromethane	53		"	50.0		106	10-200		4.10	30	
Dibromomethane	54		"	50.0		108	83-124		2.89	30	
Dichlorodifluoromethane	35		"	50.0		70.2	28-158		0.600	30	
Ethyl Benzene	54		"	50.0		107	84-125		4.81	30	
Hexachlorobutadiene	56		"	50.0		112	83-133		2.28	30	
Isopropylbenzene	56		"	50.0		111	81-127		5.61	30	
Methyl acetate	50		"	50.0		99.1	41-143		3.76	30	
Methyl tert-butyl ether (MTBE)	57		"	50.0		115	74-131		1.61	30	
Methylcyclohexane	55		"	50.0		109	70-130		4.98	30	
Methylene chloride	56		"	50.0		111	57-141		0.0720	30	
n-Butylbenzene	55		"	50.0		111	80-130		4.31	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

Batch BD71371 - EPA 5035A

LCS Dup (BD71371-BSD1)

Prepared & Analyzed: 04/28/2017

n-Propylbenzene	56		ug/L	50.0		112	74-136		3.66	30	
o-Xylene	55		"	50.0		110	83-123		1.88	30	
p- & m- Xylenes	110		"	100		106	82-128		2.95	30	
p-Isopropyltoluene	54		"	50.0		107	85-125		4.64	30	
sec-Butylbenzene	56		"	50.0		113	83-125		2.89	30	
Styrene	54		"	50.0		107	86-126		2.42	30	
tert-Butyl alcohol (TBA)	50		"	50.0		99.3	70-130		5.24	30	
tert-Butylbenzene	55		"	50.0		109	80-127		2.66	30	
Tetrachloroethylene	52		"	50.0		105	80-129		4.92	30	
Toluene	54		"	50.0		108	85-121		3.51	30	
trans-1,2-Dichloroethylene	57		"	50.0		114	72-132		2.89	30	
trans-1,3-Dichloropropylene	57		"	50.0		113	78-132		3.01	30	
Trichloroethylene	55		"	50.0		110	84-123		6.61	30	
Trichlorofluoromethane	51		"	50.0		103	62-140		2.78	30	
Vinyl Chloride	44		"	50.0		88.9	52-130		4.87	30	
Surrogate: 1,2-Dichloroethane-d4	46.3		"	50.0		92.5	77-125				
Surrogate: Toluene-d8	46.9		"	50.0		93.7	85-120				
Surrogate: p-Bromofluorobenzene	51.9		"	50.0		104	76-130				

Batch BD71373 - EPA 5030B

Blank (BD71373-BLK1)

Prepared & Analyzed: 04/28/2017

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	"
1,1,2,2-Tetrachloroethane	ND	0.50	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"
1,1,2-Trichloroethane	ND	0.50	"
1,1-Dichloroethane	ND	0.50	"
1,1-Dichloroethylene	ND	0.50	"
1,2,3-Trichlorobenzene	ND	0.50	"
1,2,3-Trichloropropane	ND	0.50	"
1,2,4-Trichlorobenzene	ND	0.50	"
1,2,4-Trimethylbenzene	ND	0.50	"
1,2-Dibromo-3-chloropropane	ND	0.50	"
1,2-Dibromoethane	ND	0.50	"
1,2-Dichlorobenzene	ND	0.50	"
1,2-Dichloroethane	ND	0.50	"
1,2-Dichloropropane	ND	0.50	"
1,3,5-Trimethylbenzene	ND	0.50	"
1,3-Dichlorobenzene	ND	0.50	"
1,4-Dichlorobenzene	ND	0.50	"
1,4-Dioxane	ND	40	"
2-Butanone	ND	0.50	"
2-Hexanone	ND	0.50	"
4-Methyl-2-pentanone	ND	0.50	"
Acetone	ND	2.0	"
Acrolein	ND	0.50	"
Acrylonitrile	ND	0.50	"
Benzene	ND	0.50	"
Bromochloromethane	ND	0.50	"
Bromodichloromethane	ND	0.50	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BD71373 - EPA 5030B

Blank (BD71373-BLK1)

Prepared & Analyzed: 04/28/2017

Bromoform	ND	0.50	ug/L								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	10.8		"	10.0		108	69-130				
Surrogate: Toluene-d8	9.88		"	10.0		98.8	81-117				
Surrogate: p-Bromofluorobenzene	10.8		"	10.0		108	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BD71373 - EPA 5030B

LCS (BD71373-BS1)

Prepared & Analyzed: 04/28/2017

1,1,1,2-Tetrachloroethane	10		ug/L	10.0		99.9	82-126				
1,1,1-Trichloroethane	11		"	10.0		106	78-136				
1,1,2,2-Tetrachloroethane	9.6		"	10.0		96.2	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		122	54-165				
1,1,2-Trichloroethane	9.5		"	10.0		95.0	82-123				
1,1-Dichloroethane	11		"	10.0		105	82-129				
1,1-Dichloroethylene	10		"	10.0		104	68-138				
1,2,3-Trichlorobenzene	11		"	10.0		108	76-136				
1,2,3-Trichloropropane	9.8		"	10.0		97.8	77-128				
1,2,4-Trichlorobenzene	11		"	10.0		105	76-137				
1,2,4-Trimethylbenzene	10		"	10.0		105	82-132				
1,2-Dibromo-3-chloropropane	8.0		"	10.0		80.2	45-147				
1,2-Dibromoethane	9.7		"	10.0		97.0	83-124				
1,2-Dichlorobenzene	10		"	10.0		105	79-123				
1,2-Dichloroethane	10		"	10.0		105	73-132				
1,2-Dichloropropane	10		"	10.0		99.5	78-126				
1,3,5-Trimethylbenzene	11		"	10.0		106	80-131				
1,3-Dichlorobenzene	11		"	10.0		108	86-122				
1,4-Dichlorobenzene	11		"	10.0		106	85-124				
1,4-Dioxane	170		"	200		86.7	10-349				
2-Butanone	10		"	10.0		101	49-152				
2-Hexanone	9.2		"	10.0		91.5	51-146				
4-Methyl-2-pentanone	9.2		"	10.0		92.2	57-145				
Acetone	11		"	10.0		114	14-150				
Acrolein	8.3		"	10.0		83.4	10-153				
Acrylonitrile	6.3		"	10.0		63.1	51-150				
Benzene	10		"	10.0		104	85-126				
Bromochloromethane	11		"	10.0		106	77-128				
Bromodichloromethane	9.5		"	10.0		95.0	79-128				
Bromoform	8.3		"	10.0		83.1	78-133				
Bromomethane	6.6		"	10.0		65.9	43-168				
Carbon disulfide	9.8		"	10.0		98.0	68-146				
Carbon tetrachloride	11		"	10.0		109	77-141				
Chlorobenzene	10		"	10.0		103	88-120				
Chloroethane	11		"	10.0		112	65-136				
Chloroform	10		"	10.0		104	82-128				
Chloromethane	8.5		"	10.0		85.2	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		106	83-129				
cis-1,3-Dichloropropylene	9.6		"	10.0		96.5	80-131				
Cyclohexane	12		"	10.0		115	63-149				
Dibromochloromethane	9.1		"	10.0		91.0	80-130				
Dibromomethane	9.8		"	10.0		97.6	72-134				
Dichlorodifluoromethane	8.8		"	10.0		87.9	44-144				
Ethyl Benzene	10		"	10.0		103	80-131				
Hexachlorobutadiene	12		"	10.0		120	67-146				
Isopropylbenzene	11		"	10.0		106	76-140				
Methyl acetate	10		"	10.0		99.7	51-139				
Methyl tert-butyl ether (MTBE)	9.5		"	10.0		95.0	76-135				
Methylcyclohexane	11		"	10.0		114	72-143				
Methylene chloride	10		"	10.0		101	55-137				
n-Butylbenzene	11		"	10.0		113	79-132				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD71373 - EPA 5030B											
LCS (BD71373-BS1)						Prepared & Analyzed: 04/28/2017					
n-Propylbenzene	11		ug/L	10.0		108	78-133				
o-Xylene	10		"	10.0		99.6	78-130				
p- & m- Xylenes	21		"	20.0		105	77-133				
p-Isopropyltoluene	11		"	10.0		112	81-136				
sec-Butylbenzene	11		"	10.0		111	79-137				
Styrene	9.8		"	10.0		97.8	67-132				
tert-Butyl alcohol (TBA)	14		"	10.0		140	25-162				
tert-Butylbenzene	11		"	10.0		108	77-138				
Tetrachloroethylene	10		"	10.0		104	82-131				
Toluene	10		"	10.0		103	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		104	80-132				
trans-1,3-Dichloropropylene	9.3		"	10.0		92.8	78-131				
Trichloroethylene	10		"	10.0		99.9	82-128				
Trichlorofluoromethane	13		"	10.0		130	67-139				
Vinyl Chloride	10		"	10.0		99.9	58-145				
Surrogate: 1,2-Dichloroethane-d4	9.92		"	10.0		99.2	69-130				
Surrogate: Toluene-d8	9.90		"	10.0		99.0	81-117				
Surrogate: p-Bromofluorobenzene	9.57		"	10.0		95.7	79-122				
LCS Dup (BD71373-BSD1)						Prepared & Analyzed: 04/28/2017					
1,1,1,2-Tetrachloroethane	9.9		ug/L	10.0		99.0	82-126		0.905	30	
1,1,1-Trichloroethane	11		"	10.0		106	78-136		0.00	30	
1,1,2,2-Tetrachloroethane	9.2		"	10.0		92.2	76-129		4.25	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		121	54-165		0.743	30	
1,1,2-Trichloroethane	9.4		"	10.0		94.1	82-123		0.952	30	
1,1-Dichloroethane	10		"	10.0		105	82-129		0.476	30	
1,1-Dichloroethylene	10		"	10.0		105	68-138		0.766	30	
1,2,3-Trichlorobenzene	14		"	10.0		135	76-136		22.1	30	
1,2,3-Trichloropropane	9.6		"	10.0		95.6	77-128		2.28	30	
1,2,4-Trichlorobenzene	11		"	10.0		115	76-137		8.74	30	
1,2,4-Trimethylbenzene	10		"	10.0		103	82-132		2.02	30	
1,2-Dibromo-3-chloropropane	7.8		"	10.0		78.5	45-147		2.14	30	
1,2-Dibromoethane	9.5		"	10.0		95.1	83-124		1.98	30	
1,2-Dichlorobenzene	10		"	10.0		102	79-123		3.20	30	
1,2-Dichloroethane	10		"	10.0		101	73-132		3.11	30	
1,2-Dichloropropane	9.8		"	10.0		98.2	78-126		1.32	30	
1,3,5-Trimethylbenzene	10		"	10.0		104	80-131		1.71	30	
1,3-Dichlorobenzene	10		"	10.0		104	86-122		2.83	30	
1,4-Dichlorobenzene	10		"	10.0		103	85-124		2.97	30	
1,4-Dioxane	150		"	200		73.2	10-349		17.0	30	
2-Butanone	9.8		"	10.0		98.5	49-152		2.61	30	
2-Hexanone	8.6		"	10.0		86.4	51-146		5.73	30	
4-Methyl-2-pentanone	9.0		"	10.0		89.6	57-145		2.86	30	
Acetone	11		"	10.0		113	14-150		1.41	30	
Acrolein	8.3		"	10.0		83.4	10-153		0.00	30	
Acrylonitrile	6.4		"	10.0		63.9	51-150		1.26	30	
Benzene	11		"	10.0		105	85-126		0.668	30	
Bromochloromethane	11		"	10.0		105	77-128		0.380	30	
Bromodichloromethane	9.3		"	10.0		93.0	79-128		2.13	30	
Bromoform	8.1		"	10.0		80.6	78-133		3.05	30	
Bromomethane	7.2		"	10.0		72.3	43-168		9.26	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
Batch BD71373 - EPA 5030B											
LCS Dup (BD71373-BSD1)						Prepared & Analyzed: 04/28/2017					
Carbon disulfide	9.9		ug/L	10.0		98.9	68-146		0.914	30	
Carbon tetrachloride	11		"	10.0		110	77-141		0.910	30	
Chlorobenzene	10		"	10.0		102	88-120		0.681	30	
Chloroethane	11		"	10.0		111	65-136		1.25	30	
Chloroform	10		"	10.0		105	82-128		0.768	30	
Chloromethane	8.4		"	10.0		84.1	43-155		1.30	30	
cis-1,2-Dichloroethylene	10		"	10.0		104	83-129		1.71	30	
cis-1,3-Dichloropropylene	9.6		"	10.0		96.5	80-131		0.00	30	
Cyclohexane	11		"	10.0		115	63-149		0.434	30	
Dibromochloromethane	8.9		"	10.0		89.2	80-130		2.00	30	
Dibromomethane	9.7		"	10.0		97.1	72-134		0.514	30	
Dichlorodifluoromethane	8.9		"	10.0		88.8	44-144		1.02	30	
Ethyl Benzene	10		"	10.0		102	80-131		0.293	30	
Hexachlorobutadiene	12		"	10.0		122	67-146		1.99	30	
Isopropylbenzene	10		"	10.0		105	76-140		1.42	30	
Methyl acetate	9.6		"	10.0		96.0	51-139		3.78	30	
Methyl tert-butyl ether (MTBE)	9.4		"	10.0		94.2	76-135		0.846	30	
Methylcyclohexane	12		"	10.0		116	72-143		1.92	30	
Methylene chloride	9.9		"	10.0		98.9	55-137		1.70	30	
n-Butylbenzene	11		"	10.0		111	79-132		2.06	30	
n-Propylbenzene	11		"	10.0		106	78-133		2.15	30	
o-Xylene	9.9		"	10.0		98.7	78-130		0.908	30	
p- & m- Xylenes	21		"	20.0		105	77-133		0.0476	30	
p-Isopropyltoluene	11		"	10.0		110	81-136		1.98	30	
sec-Butylbenzene	11		"	10.0		110	79-137		1.17	30	
Styrene	9.7		"	10.0		97.4	67-132		0.410	30	
tert-Butyl alcohol (TBA)	12		"	10.0		121	25-162		15.2	30	
tert-Butylbenzene	11		"	10.0		106	77-138		1.77	30	
Tetrachloroethylene	11		"	10.0		106	82-131		1.05	30	
Toluene	10		"	10.0		103	80-127		0.0973	30	
trans-1,2-Dichloroethylene	10		"	10.0		104	80-132		0.0964	30	
trans-1,3-Dichloropropylene	9.2		"	10.0		91.7	78-131		1.19	30	
Trichloroethylene	10		"	10.0		100	82-128		0.100	30	
Trichlorofluoromethane	13		"	10.0		130	67-139		0.231	30	
Vinyl Chloride	10		"	10.0		101	58-145		1.19	30	
Surrogate: 1,2-Dichloroethane-d4	9.73		"	10.0		97.3	69-130				
Surrogate: Toluene-d8	10.0		"	10.0		100	81-117				
Surrogate: p-Bromofluorobenzene	9.50		"	10.0		95.0	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BD71440 - EPA 5035A

Blank (BD71440-BLK1)

Prepared & Analyzed: 05/01/2017

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	5.3	10	"
n-Butylbenzene	ND	5.0	"



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

Batch BD71440 - EPA 5035A

Blank (BD71440-BLK1)

Prepared & Analyzed: 05/01/2017

n-Propylbenzene	ND	5.0	ug/kg wet
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	48.8	ug/L	50.0	97.6	77-125
Surrogate: Toluene-d8	46.6	"	50.0	93.2	85-120
Surrogate: p-Bromofluorobenzene	46.1	"	50.0	92.2	76-130

Blank (BD71440-BLK2)

Prepared & Analyzed: 05/01/2017

1,1,1,2-Tetrachloroethane	ND	500	ug/kg wet
1,1,1-Trichloroethane	ND	500	"
1,1,2,2-Tetrachloroethane	ND	500	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	500	"
1,1,2-Trichloroethane	ND	500	"
1,1-Dichloroethane	ND	500	"
1,1-Dichloroethylene	ND	500	"
1,2,3-Trichlorobenzene	ND	500	"
1,2,3-Trichloropropane	ND	500	"
1,2,4-Trichlorobenzene	ND	500	"
1,2,4-Trimethylbenzene	ND	500	"
1,2-Dibromo-3-chloropropane	ND	500	"
1,2-Dibromoethane	ND	500	"
1,2-Dichlorobenzene	ND	500	"
1,2-Dichloroethane	ND	500	"
1,2-Dichloropropane	ND	500	"
1,3,5-Trimethylbenzene	ND	500	"
1,3-Dichlorobenzene	ND	500	"
1,4-Dichlorobenzene	ND	500	"
1,4-Dioxane	ND	10000	"
2-Butanone	ND	500	"
2-Hexanone	ND	500	"
4-Methyl-2-pentanone	ND	500	"
Acetone	860	1000	"
Acrolein	ND	1000	"
Acrylonitrile	ND	500	"
Benzene	ND	500	"
Bromochloromethane	ND	500	"
Bromodichloromethane	ND	500	"
Bromoform	ND	500	"



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

Batch BD71440 - EPA 5035A

Blank (BD71440-BLK2)

Prepared & Analyzed: 05/01/2017

Bromomethane	ND	500	ug/kg wet								
Carbon disulfide	ND	500	"								
Carbon tetrachloride	ND	500	"								
Chlorobenzene	ND	500	"								
Chloroethane	ND	500	"								
Chloroform	ND	500	"								
Chloromethane	ND	500	"								
cis-1,2-Dichloroethylene	ND	500	"								
cis-1,3-Dichloropropylene	ND	500	"								
Cyclohexane	ND	500	"								
Dibromochloromethane	ND	500	"								
Dibromomethane	ND	500	"								
Dichlorodifluoromethane	ND	500	"								
Ethyl Benzene	ND	500	"								
Hexachlorobutadiene	ND	500	"								
Isopropylbenzene	ND	500	"								
Methyl acetate	ND	500	"								
Methyl tert-butyl ether (MTBE)	ND	500	"								
Methylcyclohexane	ND	500	"								
Methylene chloride	1100	1000	"								
n-Butylbenzene	ND	500	"								
n-Propylbenzene	ND	500	"								
o-Xylene	ND	500	"								
p- & m- Xylenes	ND	1000	"								
p-Isopropyltoluene	ND	500	"								
sec-Butylbenzene	ND	500	"								
Styrene	ND	500	"								
tert-Butyl alcohol (TBA)	ND	500	"								
tert-Butylbenzene	ND	500	"								
Tetrachloroethylene	ND	500	"								
Toluene	ND	500	"								
trans-1,2-Dichloroethylene	ND	500	"								
trans-1,3-Dichloropropylene	ND	500	"								
Trichloroethylene	ND	500	"								
Trichlorofluoromethane	ND	500	"								
Vinyl Chloride	ND	500	"								
Xylenes, Total	ND	1500	"								
Surrogate: 1,2-Dichloroethane-d4	48.3		ug/L	50.0		96.7	77-125				
Surrogate: Toluene-d8	46.0		"	50.0		92.1	85-120				
Surrogate: p-Bromofluorobenzene	45.8		"	50.0		91.5	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BD71440 - EPA 5035A

LCS (BD71440-BS1)

Prepared & Analyzed: 05/01/2017

1,1,1,2-Tetrachloroethane	54		ug/L	50.0		108	75-129				
1,1,1-Trichloroethane	65		"	50.0		129	71-137				
1,1,2,2-Tetrachloroethane	51		"	50.0		101	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	56		"	50.0		112	58-146				
1,1,2-Trichloroethane	57		"	50.0		114	83-123				
1,1-Dichloroethane	64		"	50.0		128	75-130				
1,1-Dichloroethylene	54		"	50.0		109	64-137				
1,2,3-Trichlorobenzene	52		"	50.0		103	81-140				
1,2,3-Trichloropropane	48		"	50.0		96.8	81-126				
1,2,4-Trichlorobenzene	54		"	50.0		108	80-141				
1,2,4-Trimethylbenzene	50		"	50.0		99.1	84-125				
1,2-Dibromo-3-chloropropane	53		"	50.0		107	74-142				
1,2-Dibromoethane	55		"	50.0		111	86-123				
1,2-Dichlorobenzene	49		"	50.0		97.3	85-122				
1,2-Dichloroethane	61		"	50.0		121	71-133				
1,2-Dichloropropane	56		"	50.0		112	81-122				
1,3,5-Trimethylbenzene	50		"	50.0		100	82-126				
1,3-Dichlorobenzene	50		"	50.0		101	84-124				
1,4-Dichlorobenzene	50		"	50.0		101	84-124				
1,4-Dioxane	1200		"	1000		116	10-228				
2-Butanone	62		"	50.0		124	58-147				
2-Hexanone	54		"	50.0		108	70-139				
4-Methyl-2-pentanone	53		"	50.0		107	72-132				
Acetone	48		"	50.0		96.1	36-155				
Acrolein	55		"	50.0		111	10-238				
Acrylonitrile	65		"	50.0		130	66-141				
Benzene	64		"	50.0		127	77-127				
Bromochloromethane	64		"	50.0		128	74-129				
Bromodichloromethane	56		"	50.0		112	81-124				
Bromoform	55		"	50.0		110	80-136				
Bromomethane	41		"	50.0		82.6	32-177				
Carbon disulfide	56		"	50.0		111	10-136				
Carbon tetrachloride	65		"	50.0		130	66-143				
Chlorobenzene	54		"	50.0		109	86-120				
Chloroethane	48		"	50.0		96.0	51-142				
Chloroform	65		"	50.0		131	76-131				
Chloromethane	49		"	50.0		98.6	49-132				
cis-1,2-Dichloroethylene	64		"	50.0		127	74-132				
cis-1,3-Dichloropropylene	56		"	50.0		113	81-129				
Cyclohexane	61		"	50.0		123	70-130				
Dibromochloromethane	55		"	50.0		110	10-200				
Dibromomethane	56		"	50.0		113	83-124				
Dichlorodifluoromethane	45		"	50.0		89.6	28-158				
Ethyl Benzene	54		"	50.0		109	84-125				
Hexachlorobutadiene	54		"	50.0		108	83-133				
Isopropylbenzene	51		"	50.0		102	81-127				
Methyl acetate	49		"	50.0		97.2	41-143				
Methyl tert-butyl ether (MTBE)	63		"	50.0		126	74-131				
Methylcyclohexane	55		"	50.0		109	70-130				
Methylene chloride	55		"	50.0		110	57-141				
n-Butylbenzene	51		"	50.0		102	80-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD71440 - EPA 5035A											
LCS (BD71440-BS1)						Prepared & Analyzed: 05/01/2017					
n-Propylbenzene	51		ug/L	50.0		102	74-136				
o-Xylene	56		"	50.0		112	83-123				
p- & m- Xylenes	110		"	100		108	82-128				
p-Isopropyltoluene	51		"	50.0		102	85-125				
sec-Butylbenzene	51		"	50.0		101	83-125				
Styrene	54		"	50.0		107	86-126				
tert-Butyl alcohol (TBA)	65		"	50.0		130	70-130				
tert-Butylbenzene	50		"	50.0		100	80-127				
Tetrachloroethylene	52		"	50.0		104	80-129				
Toluene	54		"	50.0		109	85-121				
trans-1,2-Dichloroethylene	63		"	50.0		125	72-132				
trans-1,3-Dichloropropylene	59		"	50.0		118	78-132				
Trichloroethylene	57		"	50.0		115	84-123				
Trichlorofluoromethane	52		"	50.0		103	62-140				
Vinyl Chloride	47		"	50.0		93.2	52-130				
Surrogate: 1,2-Dichloroethane-d4	46.8		"	50.0		93.6	77-125				
Surrogate: Toluene-d8	45.7		"	50.0		91.4	85-120				
Surrogate: p-Bromofluorobenzene	48.8		"	50.0		97.5	76-130				
LCS Dup (BD71440-BSD1)						Prepared & Analyzed: 05/01/2017					
1,1,1,2-Tetrachloroethane	53		ug/L	50.0		107	75-129		0.859	30	
1,1,1-Trichloroethane	61		"	50.0		122	71-137		5.89	30	
1,1,2,2-Tetrachloroethane	48		"	50.0		95.7	79-129		5.49	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53		"	50.0		106	58-146		5.65	30	
1,1,2-Trichloroethane	56		"	50.0		111	83-123		2.37	30	
1,1-Dichloroethane	60		"	50.0		120	75-130		6.23	30	
1,1-Dichloroethylene	52		"	50.0		105	64-137		3.80	30	
1,2,3-Trichlorobenzene	48		"	50.0		95.3	81-140		7.90	30	
1,2,3-Trichloropropane	46		"	50.0		91.0	81-126		6.13	30	
1,2,4-Trichlorobenzene	49		"	50.0		98.5	80-141		9.51	30	
1,2,4-Trimethylbenzene	47		"	50.0		93.2	84-125		6.10	30	
1,2-Dibromo-3-chloropropane	50		"	50.0		99.5	74-142		6.89	30	
1,2-Dibromoethane	56		"	50.0		112	86-123		1.42	30	
1,2-Dichlorobenzene	48		"	50.0		95.3	85-122		2.08	30	
1,2-Dichloroethane	58		"	50.0		116	71-133		4.76	30	
1,2-Dichloropropane	56		"	50.0		112	81-122		0.322	30	
1,3,5-Trimethylbenzene	47		"	50.0		94.5	82-126		5.67	30	
1,3-Dichlorobenzene	45		"	50.0		90.9	84-124		10.4	30	
1,4-Dichlorobenzene	47		"	50.0		93.0	84-124		7.87	30	
1,4-Dioxane	1000		"	1000		104	10-228		11.3	30	
2-Butanone	58		"	50.0		117	58-147		6.16	30	
2-Hexanone	54		"	50.0		108	70-139		0.222	30	
4-Methyl-2-pentanone	54		"	50.0		107	72-132		0.616	30	
Acetone	47		"	50.0		94.3	36-155		1.83	30	
Acrolein	51		"	50.0		103	10-238		7.85	30	
Acrylonitrile	59		"	50.0		118	66-141		9.46	30	
Benzene	60		"	50.0		121	77-127		5.34	30	
Bromochloromethane	62		"	50.0		125	74-129		2.12	30	
Bromodichloromethane	56		"	50.0		112	81-124		0.178	30	
Bromoform	52		"	50.0		103	80-136		5.97	30	
Bromomethane	43		"	50.0		85.7	32-177		3.66	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

Batch BD71440 - EPA 5035A

LCS Dup (BD71440-BSD1)

Prepared & Analyzed: 05/01/2017

Carbon disulfide	54		ug/L	50.0		107	10-136		3.90	30	
Carbon tetrachloride	62		"	50.0		124	66-143		5.10	30	
Chlorobenzene	54		"	50.0		108	86-120		1.14	30	
Chloroethane	50		"	50.0		101	51-142		4.94	30	
Chloroform	61		"	50.0		123	76-131		6.23	30	
Chloromethane	48		"	50.0		96.2	49-132		2.38	30	
cis-1,2-Dichloroethylene	60		"	50.0		121	74-132		4.98	30	
cis-1,3-Dichloropropylene	58		"	50.0		116	81-129		2.38	30	
Cyclohexane	58		"	50.0		116	70-130		5.80	30	
Dibromochloromethane	57		"	50.0		114	10-200		2.91	30	
Dibromomethane	57		"	50.0		114	83-124		1.41	30	
Dichlorodifluoromethane	43		"	50.0		86.5	28-158		3.54	30	
Ethyl Benzene	54		"	50.0		108	84-125		1.07	30	
Hexachlorobutadiene	47		"	50.0		94.9	83-133		12.6	30	
Isopropylbenzene	48		"	50.0		96.3	81-127		5.82	30	
Methyl acetate	48		"	50.0		95.4	41-143		1.95	30	
Methyl tert-butyl ether (MTBE)	59		"	50.0		119	74-131		6.07	30	
Methylcyclohexane	55		"	50.0		110	70-130		0.620	30	
Methylene chloride	52		"	50.0		103	57-141		5.87	30	
n-Butylbenzene	48		"	50.0		95.2	80-130		7.32	30	
n-Propylbenzene	47		"	50.0		94.6	74-136		7.60	30	
o-Xylene	56		"	50.0		112	83-123		0.0717	30	
p- & m- Xylenes	110		"	100		106	82-128		1.29	30	
p-Isopropyltoluene	47		"	50.0		94.2	85-125		7.73	30	
sec-Butylbenzene	48		"	50.0		96.2	83-125		5.24	30	
Styrene	55		"	50.0		109	86-126		1.77	30	
tert-Butyl alcohol (TBA)	55		"	50.0		110	70-130		16.4	30	
tert-Butylbenzene	47		"	50.0		94.7	80-127		5.96	30	
Tetrachloroethylene	50		"	50.0		101	80-129		3.47	30	
Toluene	54		"	50.0		108	85-121		1.11	30	
trans-1,2-Dichloroethylene	60		"	50.0		120	72-132		4.25	30	
trans-1,3-Dichloropropylene	57		"	50.0		114	78-132		3.12	30	
Trichloroethylene	57		"	50.0		113	84-123		1.32	30	
Trichlorofluoromethane	50		"	50.0		101	62-140		2.17	30	
Vinyl Chloride	46		"	50.0		91.2	52-130		2.10	30	
Surrogate: 1,2-Dichloroethane-d4	46.0		"	50.0		92.1	77-125				
Surrogate: Toluene-d8	45.7		"	50.0		91.3	85-120				
Surrogate: p-Bromofluorobenzene	45.7		"	50.0		91.3	76-130				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
17D0866-01	South-SE-Corner	40mL Vial with Stir Bar-Cool 4° C
17D0866-02	South-SW-Corner	40mL Vial with Stir Bar-Cool 4° C
17D0866-03	South-NW-Corner	40mL Vial with Stir Bar-Cool 4° C
17D0866-04	South-NE-Corner	40mL Vial with Stir Bar-Cool 4° C
17D0866-05	South-Bottom1	40mL Vial with Stir Bar-Cool 4° C
17D0866-06	South-Bottom2	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
17D0866-07	DUP-1-4.21.17	40mL Vial with Stir Bar-Cool 4° C
17D0866-08	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Notes and Definitions

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
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.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

*	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
120 RESEARCH DR.
STRAITFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of 1

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

York Project No. 17D0866

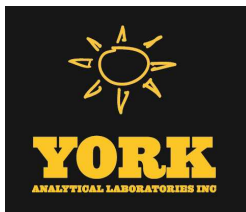
YOUR Information Company: <u>Langan CT Inc</u> Address: <u>555 Long Wharf Dr</u> <u>New Haven CT 06511</u> Phone No. <u>203-562-5771</u> Contact Person: <u>H. Giesbach</u> E-Mail Address: <u>hgiesbach@langan.com</u>		Report To: Company: <u>Same</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Invoice To: Company: <u>Same</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		YOUR Project ID <u>Kings Plaza</u> Purchase Order No. <u>140080114</u>		Turn-Around Time RUSH - Same Day ☐ RUSH - Next Day ☐ RUSH - Two Day ☐ RUSH - Three Day ☐ RUSH - Four Day ☐ Standard (\$7 Days) ☒		Report Type Summary Report _____ Summary w/ QA Summary _____ CT RCP Package _____ CTRCP DQA/DUE Pkg _____ NY ASP A Package _____ NY ASP B Package ☒ NIDEPR Red. Deliv. _____ Electronic Data Deliverables (EDD) _____ Simple Excel _____ NYSEDEC EQULS ☒ EQULS (std) _____ EZ-EDD (EQULS) _____ NIDEPR SRP HazSite EDD _____ GIS/KEY (std) _____ Other _____ York Regulatory Comparison _____ Excel Spreadsheet _____ Compare to the following Regs. (please fill in): _____	

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.

Hannah Giesbach
 Samples Collected/Authorized By (Signature)
Hannah Giesbach
 Name (printed)

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
South-SE-Corner	4.21.17 930	S	6 NYCARB Part 375 List & TCU TAL List VOCs	Terracore Kit
South-SW-Corner	945			
South-NW-Corner	1315			
South-NE-Corner	1345			
South-Bottom 1	1600			
South-Bottom 2	1630			
DUP-1-4.21.17	↓			
Trip Blank	-	Ag		2 VOCs

Comments Please cc dgfrancu@langan.com on all deliverables, *5-day TAT*	4°C ☒ Frozen ☒ HCl ☒ MeOH ☒ HNO ₃ ☒ H ₂ SO ₄ ☒ NaOH ☒ Other ☐	Samples Relinquished By <u>Hannah Giesbach</u> 4/21/17 1515 Date/Time	Samples Received By <u>JAMES BARNES</u> 4/21/17 1928 Date/Time	
	Preservation Check those Applicable Special Instructions Field Filtered ☐ Lab to Filter ☐	Samples Relinquished By _____ Date/Time	Samples Received In LAB by _____ Date/Time	Temperature on Receipt <u>2.3 °C</u>



Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive

New Haven CT, 06511

Attention: Justin Hall

Report Date: 05/08/2017

Client Project ID: 140080114

York Project (SDG) No.: 17D1104

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371



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

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 05/08/2017
Client Project ID: 140080114
York Project (SDG) No.: 17D1104

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Justin Hall

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 28, 2017 and listed below. The project was identified as your project: **140080114**.

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 Notes 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 attachment to 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>
17D1104-01	North-NW-Corner	Soil	04/27/2017	04/28/2017
17D1104-02	North-NE-Corner-MS/MSD	Soil	04/27/2017	04/28/2017
17D1104-03	North-SE-Corner	Soil	04/28/2017	04/28/2017
17D1104-04	North-SW-Corner	Soil	04/28/2017	04/28/2017
17D1104-05	North-BW-Bottom 1	Soil	04/28/2017	04/28/2017
17D1104-06	North-BE-Bottom 2	Soil	04/28/2017	04/28/2017
17D1104-07	Trip Blank	Water	04/28/2017	04/28/2017

General Notes for York Project (SDG) No.: 17D1104

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 samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
9. 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: 05/08/2017





Sample Information

Client Sample ID: North-NW-Corner

York Sample ID: 17D1104-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17D1104

140080114

Soil

April 27, 2017 10:45 am

04/28/2017

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,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
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,NJDEP	05/04/2017 15:56	05/05/2017 03:12	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 03:12	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	50	100	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
78-93-3	2-Butanone	23		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK



Sample Information

Client Sample ID: North-NW-Corner

York Sample ID: 17D1104-01

York Project (SDG) No.

17D1104

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

April 27, 2017 10:45 am

Date Received

04/28/2017

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	05/04/2017 15:56	05/05/2017 03:12	BK
67-64-1	Acetone	80		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
107-02-8	Acrolein	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
71-43-2	Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
75-25-2	Bromoform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
75-15-0	Carbon disulfide	11		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
67-66-3	Chloroform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
110-82-7	Cyclohexane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK



Sample Information

Client Sample ID: North-NW-Corner

York Sample ID: 17D1104-01

York Project (SDG) No.

17D1104

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

April 27, 2017 10:45 am

Date Received

04/28/2017

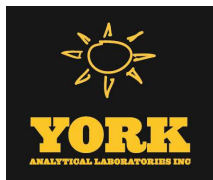
Volatile Organics, 8260 - Comprehensive

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,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
79-20-9	Methyl acetate	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
75-09-2	Methylene chloride	6.2	J	ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
100-42-5	Styrene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
108-88-3	Toluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:12	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.5	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 03:12	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	90.9 %	77-125								



Sample Information

Client Sample ID: North-NW-Corner

York Sample ID: 17D1104-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17D1104

140080114

Soil

April 27, 2017 10:45 am

04/28/2017

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
2037-26-5	Surrogate: Toluene-d8	117 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	114 %			76-130						

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	70.2		%	0.100	1	SM 2540G Certifications: CTDOH	05/05/2017 10:44	05/05/2017 15:28	TJM

Sample Information

Client Sample ID: North-NE-Corner-MS/MSD

York Sample ID: 17D1104-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17D1104

140080114

Soil

April 27, 2017 10:50 am

04/28/2017

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	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 03:45	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 03:45	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK



Sample Information

Client Sample ID: North-NE-Corner-MS/MSD

York Sample ID: 17D1104-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17D1104

140080114

Soil

April 27, 2017 10:50 am

04/28/2017

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
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	67	130	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
78-93-3	2-Butanone	7.1		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
591-78-6	2-Hexanone	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
108-10-1	* 4-Methyl-2-pentanone	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH	05/04/2017 15:56	05/05/2017 03:45	BK
67-64-1	Acetone	33		ug/kg dry	6.7	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
107-02-8	Acrolein	ND		ug/kg dry	6.7	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
71-43-2	Benzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
75-25-2	Bromoform	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
74-83-9	Bromomethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
75-15-0	Carbon disulfide	23		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK



Sample Information

Client Sample ID: North-NE-Corner-MS/MSD

York Sample ID: 17D1104-02

York Project (SDG) No.
17D1104

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
April 27, 2017 10:50 am

Date Received
04/28/2017

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
108-90-7	Chlorobenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
75-00-3	Chloroethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
67-66-3	Chloroform	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
74-87-3	Chloromethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
110-82-7	Cyclohexane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
74-95-3	Dibromomethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
79-20-9	Methyl acetate	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
75-09-2	Methylene chloride	ND		ug/kg dry	6.7	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
95-47-6	o-Xylene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.7	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK



Sample Information

Client Sample ID: North-NE-Corner-MS/MSD

York Sample ID: 17D1104-02

York Project (SDG) No.
17D1104

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
April 27, 2017 10:50 am

Date Received
04/28/2017

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
100-42-5	Styrene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
108-88-3	Toluene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 03:45	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	10	20	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 03:45	BK
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	89.4 %									
2037-26-5	Surrogate: Toluene-d8	117 %									
460-00-4	Surrogate: p-Bromofluorobenzene	110 %									

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	61.3		%	0.100	1	SM 2540G Certifications: CTDOH	05/05/2017 10:44	05/05/2017 15:28	TJM

Sample Information

Client Sample ID: North-SE-Corner

York Sample ID: 17D1104-03

York Project (SDG) No.
17D1104

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
April 28, 2017 8:30 am

Date Received
04/28/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

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

RICHMOND HILL, NY 11418
ClientServices@



Sample Information

Client Sample ID: North-SE-Corner

York Sample ID: 17D1104-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17D1104

140080114

Soil

April 28, 2017 8:30 am

04/28/2017

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	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 06:00	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 06:00	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	63	130	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
78-93-3	2-Butanone	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
591-78-6	2-Hexanone	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
108-10-1	* 4-Methyl-2-pentanone	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH	05/04/2017 15:56	05/05/2017 06:00	BK
67-64-1	Acetone	30		ug/kg dry	6.3	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK



Sample Information

Client Sample ID: North-SE-Corner

York Sample ID: 17D1104-03

York Project (SDG) No.
17D1104

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
April 28, 2017 8:30 am

Date Received
04/28/2017

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	6.3	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
71-43-2	Benzene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
75-25-2	Bromoform	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
74-83-9	Bromomethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
75-15-0	Carbon disulfide	25		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
75-00-3	Chloroethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
67-66-3	Chloroform	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
74-87-3	Chloromethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
110-82-7	Cyclohexane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
74-95-3	Dibromomethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
79-20-9	Methyl acetate	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK



Sample Information

Client Sample ID: North-SE-Corner

York Sample ID: 17D1104-03

York Project (SDG) No.
17D1104

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
April 28, 2017 8:30 am

Date Received
04/28/2017

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	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
75-09-2	Methylene chloride	ND		ug/kg dry	6.3	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
95-47-6	o-Xylene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.3	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
100-42-5	Styrene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
108-88-3	Toluene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:00	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.5	19	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 06:00	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	91.1 %	77-125								
2037-26-5	Surrogate: Toluene-d8	116 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	109 %	76-130								



Sample Information

Client Sample ID: North-SE-Corner

York Sample ID: 17D1104-03

York Project (SDG) No.

17D1104

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

April 28, 2017 8:30 am

Date Received

04/28/2017

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	63.2		%	0.100	1	SM 2540G Certifications: CTDOH	05/05/2017 10:44	05/05/2017 15:28	TJM

Sample Information

Client Sample ID: North-SW-Corner

York Sample ID: 17D1104-04

York Project (SDG) No.

17D1104

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

April 28, 2017 8:35 am

Date Received

04/28/2017

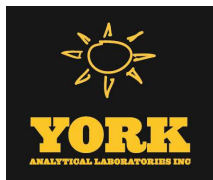
Volatile Organics, 8260 - Comprehensive

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	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 06:34	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 06:34	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
95-63-6	1,2,4-Trimethylbenzene	18		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK



Sample Information

Client Sample ID: North-SW-Corner

York Sample ID: 17D1104-04

York Project (SDG) No.
17D1104

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
April 28, 2017 8:35 am

Date Received
04/28/2017

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	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
108-67-8	1,3,5-Trimethylbenzene	7.7		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	55	110	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
78-93-3	2-Butanone	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
108-10-1	* 4-Methyl-2-pentanone	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH	05/04/2017 15:56	05/05/2017 06:34	BK
67-64-1	Acetone	27		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
107-02-8	Acrolein	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
71-43-2	Benzene	3.7	J	ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
75-25-2	Bromoform	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
75-15-0	Carbon disulfide	13		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK



Sample Information

Client Sample ID: North-SW-Corner

York Sample ID: 17D1104-04

York Project (SDG) No.

17D1104

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

April 28, 2017 8:35 am

Date Received

04/28/2017

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	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
110-82-7	Cyclohexane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
100-41-4	Ethyl Benzene	13		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
79-20-9	Methyl acetate	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
75-09-2	Methylene chloride	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
91-20-3	Naphthalene	1100		ug/kg dry	33	130	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/06/2017 05:22	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
95-47-6	o-Xylene	15		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
179601-23-1	p- & m- Xylenes	25		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
100-42-5	Styrene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK



Sample Information

Client Sample ID: North-SW-Corner

York Sample ID: 17D1104-04

York Project (SDG) No.

17D1104

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

April 28, 2017 8:35 am

Date Received

04/28/2017

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
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
108-88-3	Toluene	12		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 06:34	BK
1330-20-7	Xylenes, Total	40		ug/kg dry	8.2	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 06:34	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	96.3 %	77-125								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	88.9 %	77-125								
2037-26-5	Surrogate: Toluene-d8	110 %	85-120								
2037-26-5	Surrogate: Toluene-d8	114 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	110 %	76-130								
460-00-4	Surrogate: p-Bromofluorobenzene	90.8 %	76-130								

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	69.7		%	0.100	1	SM 2540G Certifications: CTDOH	05/05/2017 10:44	05/05/2017 15:28	TJM

Sample Information

Client Sample ID: North-BW-Bottom 1

York Sample ID: 17D1104-05

York Project (SDG) No.

17D1104

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

April 28, 2017 8:40 am

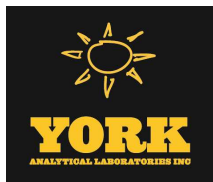
Date Received

04/28/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: North-BW-Bottom 1

York Sample ID: 17D1104-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17D1104

140080114

Soil

April 28, 2017 8:40 am

04/28/2017

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	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 07:08	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 07:08	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	68	140	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
78-93-3	2-Butanone	8.8		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
591-78-6	2-Hexanone	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
108-10-1	* 4-Methyl-2-pentanone	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH	05/04/2017 15:56	05/05/2017 07:08	BK
67-64-1	Acetone	36		ug/kg dry	6.8	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK



Sample Information

Client Sample ID: North-BW-Bottom 1

York Sample ID: 17D1104-05

York Project (SDG) No.
17D1104

Client Project ID
140080114

Matrix
Soil

Collection Date/Time
April 28, 2017 8:40 am

Date Received
04/28/2017

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	6.8	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
71-43-2	Benzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
75-25-2	Bromoform	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
74-83-9	Bromomethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
75-15-0	Carbon disulfide	31		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
75-00-3	Chloroethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
67-66-3	Chloroform	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
74-87-3	Chloromethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
110-82-7	Cyclohexane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
74-95-3	Dibromomethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
79-20-9	Methyl acetate	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK



Sample Information

Client Sample ID: North-BW-Bottom 1

York Sample ID: 17D1104-05

York Project (SDG) No.

17D1104

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

April 28, 2017 8:40 am

Date Received

04/28/2017

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	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
75-09-2	Methylene chloride	ND		ug/kg dry	6.8	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
95-47-6	o-Xylene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.8	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
100-42-5	Styrene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
108-88-3	Toluene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.4	6.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:08	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	10	20	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 07:08	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	91.4 %	77-125								
2037-26-5	Surrogate: Toluene-d8	114 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	110 %	76-130								



Sample Information

Client Sample ID: North-BW-Bottom 1

York Sample ID: 17D1104-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17D1104

140080114

Soil

April 28, 2017 8:40 am

04/28/2017

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	60.7		%	0.100	1	SM 2540G Certifications: CTDOH	05/05/2017 10:44	05/05/2017 15:28	TJM

Sample Information

Client Sample ID: North-BE-Bottom 2

York Sample ID: 17D1104-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17D1104

140080114

Soil

April 28, 2017 11:30 am

04/28/2017

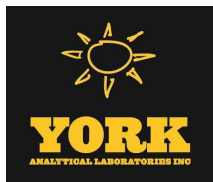
Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 07:41	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 07:41	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK



Sample Information

Client Sample ID: North-BE-Bottom 2

York Sample ID: 17D1104-06

York Project (SDG) No.

17D1104

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

April 28, 2017 11:30 am

Date Received

04/28/2017

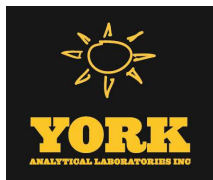
Volatile Organics, 8260 - Comprehensive

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	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	62	120	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
78-93-3	2-Butanone	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
591-78-6	2-Hexanone	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
108-10-1	* 4-Methyl-2-pentanone	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH	05/04/2017 15:56	05/05/2017 07:41	BK
67-64-1	Acetone	23		ug/kg dry	6.2	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
107-02-8	Acrolein	ND		ug/kg dry	6.2	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
71-43-2	Benzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
75-25-2	Bromoform	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
74-83-9	Bromomethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
75-15-0	Carbon disulfide	13		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
75-00-3	Chloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
67-66-3	Chloroform	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
74-87-3	Chloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK



Sample Information

Client Sample ID: North-BE-Bottom 2

York Sample ID: 17D1104-06

York Project (SDG) No.

17D1104

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

April 28, 2017 11:30 am

Date Received

04/28/2017

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	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
110-82-7	Cyclohexane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
74-95-3	Dibromomethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
79-20-9	Methyl acetate	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
75-09-2	Methylene chloride	ND		ug/kg dry	6.2	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
95-47-6	o-Xylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.2	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
100-42-5	Styrene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK



Sample Information

Client Sample ID: North-BE-Bottom 2

York Sample ID: 17D1104-06

York Project (SDG) No.

17D1104

Client Project ID

140080114

Matrix

Soil

Collection Date/Time

April 28, 2017 11:30 am

Date Received

04/28/2017

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	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/04/2017 15:56	05/05/2017 07:41	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.3	19	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 15:56	05/05/2017 07:41	BK
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %			77-125						
2037-26-5	Surrogate: Toluene-d8	105 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	88.0 %			76-130						

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	65.1		%	0.100	1	SM 2540G Certifications: CTDOH	05/05/2017 10:44	05/05/2017 15:28	TJM

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 17D1104-07

York Project (SDG) No.

17D1104

Client Project ID

140080114

Matrix

Water

Collection Date/Time

April 28, 2017 12:00 am

Date Received

04/28/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 17D1104-07

York Project (SDG) No.

17D1104

Client Project ID

140080114

Matrix

Water

Collection Date/Time

April 28, 2017 12:00 am

Date Received

04/28/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
67-64-1	Acetone	2.3	SCAL- E	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 17D1104-07

York Project (SDG) No.

17D1104

Client Project ID

140080114

Matrix

Water

Collection Date/Time

April 28, 2017 12:00 am

Date Received

04/28/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-13-1	Acrylonitrile	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
67-66-3	Chloroform	0.21	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 17D1104-07

York Project (SDG) No.

17D1104

Client Project ID

140080114

Matrix

Water

Collection Date/Time

April 28, 2017 12:00 am

Date Received

04/28/2017

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	05/04/2017 18:20	05/04/2017 23:02	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	05/04/2017 18:20	05/04/2017 23:02	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	05/04/2017 18:20	05/04/2017 23:02	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.1 %	69-130								
2037-26-5	Surrogate: Toluene-d8	103 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	105 %	79-122								



Analytical Batch Summary

Batch ID: BE70223 **Preparation Method:** EPA 5030B **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
17D1104-07	Trip Blank	05/04/17
BE70223-BLK1	Blank	05/04/17
BE70223-BS1	LCS	05/04/17
BE70223-BSD1	LCS Dup	05/04/17

Batch ID: BE70264 **Preparation Method:** EPA 5035A **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
17D1104-01	North-NW-Corner	05/04/17
17D1104-02	North-NE-Corner-MS/MSD	05/04/17
17D1104-03	North-SE-Corner	05/04/17
17D1104-04	North-SW-Corner	05/04/17
17D1104-05	North-BW-Bottom 1	05/04/17
17D1104-06	North-BE-Bottom 2	05/04/17
BE70264-BLK1	Blank	05/04/17
BE70264-BS1	LCS	05/04/17
BE70264-BSD1	LCS Dup	05/04/17
BE70264-MS1	Matrix Spike	05/04/17
BE70264-MSD1	Matrix Spike Dup	05/04/17

Batch ID: BE70312 **Preparation Method:** % Solids Prep **Prepared By:** TJM

YORK Sample ID	Client Sample ID	Preparation Date
17D1104-01	North-NW-Corner	05/05/17
17D1104-02	North-NE-Corner-MS/MSD	05/05/17
17D1104-03	North-SE-Corner	05/05/17
17D1104-04	North-SW-Corner	05/05/17
17D1104-05	North-BW-Bottom 1	05/05/17
17D1104-06	North-BE-Bottom 2	05/05/17
BE70312-DUP1	Duplicate	05/05/17

Batch ID: BE70333 **Preparation Method:** EPA 5035A **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
17D1104-04RE1	North-SW-Corner	05/04/17
BE70333-BLK1	Blank	05/05/17
BE70333-BLK2	Blank	05/05/17
BE70333-BS1	LCS	05/05/17
BE70333-BSD1	LCS Dup	05/05/17



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
Batch BE70223 - EPA 5030B											
Blank (BE70223-BLK1)										Prepared & Analyzed: 05/04/2017	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	4.5	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	1.1	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	0.82	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								



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

Batch BE70223 - EPA 5030B

Blank (BE70223-BLK1)

Prepared & Analyzed: 05/04/2017

n-Butylbenzene	ND	0.50	ug/L								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	9.94		"	10.0		99.4	69-130				
Surrogate: Toluene-d8	10.3		"	10.0		103	81-117				
Surrogate: p-Bromofluorobenzene	10.4		"	10.0		104	79-122				

LCS (BE70223-BS1)

Prepared & Analyzed: 05/04/2017

1,1,1,2-Tetrachloroethane	10		ug/L	10.0		100	82-126				
1,1,1-Trichloroethane	9.7		"	10.0		97.1	78-136				
1,1,2,2-Tetrachloroethane	10		"	10.0		101	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		104	54-165				
1,1,2-Trichloroethane	11		"	10.0		109	82-123				
1,1-Dichloroethane	9.6		"	10.0		96.2	82-129				
1,1-Dichloroethylene	10		"	10.0		99.6	68-138				
1,2,3-Trichlorobenzene	19		"	10.0		193	76-136	High Bias			
1,2,3-Trichloropropane	10		"	10.0		104	77-128				
1,2,4-Trichlorobenzene	15		"	10.0		151	76-137	High Bias			
1,2,4-Trimethylbenzene	11		"	10.0		113	82-132				
1,2-Dibromo-3-chloropropane	12		"	10.0		122	45-147				
1,2-Dibromoethane	10		"	10.0		103	83-124				
1,2-Dichlorobenzene	11		"	10.0		110	79-123				
1,2-Dichloroethane	9.1		"	10.0		90.8	73-132				
1,2-Dichloropropane	10		"	10.0		103	78-126				
1,3,5-Trimethylbenzene	11		"	10.0		113	80-131				
1,3-Dichlorobenzene	11		"	10.0		108	86-122				
1,4-Dichlorobenzene	11		"	10.0		108	85-124				
1,4-Dioxane	140		"	200		71.0	10-349				
2-Butanone	9.6		"	10.0		96.2	49-152				
2-Hexanone	11		"	10.0		105	51-146				
4-Methyl-2-pentanone	11		"	10.0		106	57-145				
Acetone	7.2		"	10.0		72.2	14-150				
Acrolein	8.6		"	10.0		85.7	10-153				
Acrylonitrile	10		"	10.0		102	51-150				
Benzene	9.7		"	10.0		97.0	85-126				
Bromochloromethane	9.6		"	10.0		96.4	77-128				
Bromodichloromethane	10		"	10.0		100	79-128				



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

Batch BE70223 - EPA 5030B

LCS (BE70223-BS1)

Prepared & Analyzed: 05/04/2017

Bromoform	10		ug/L	10.0		101	78-133				
Bromomethane	10		"	10.0		103	43-168				
Carbon disulfide	10		"	10.0		101	68-146				
Carbon tetrachloride	9.8		"	10.0		97.9	77-141				
Chlorobenzene	10		"	10.0		103	88-120				
Chloroethane	11		"	10.0		107	65-136				
Chloroform	9.4		"	10.0		94.4	82-128				
Chloromethane	12		"	10.0		120	43-155				
cis-1,2-Dichloroethylene	9.6		"	10.0		96.2	83-129				
cis-1,3-Dichloropropylene	11		"	10.0		106	80-131				
Cyclohexane	11		"	10.0		107	63-149				
Dibromochloromethane	10		"	10.0		102	80-130				
Dibromomethane	10		"	10.0		101	72-134				
Dichlorodifluoromethane	15		"	10.0		151	44-144	High Bias			
Ethyl Benzene	11		"	10.0		106	80-131				
Hexachlorobutadiene	14		"	10.0		142	67-146				
Isopropylbenzene	11		"	10.0		114	76-140				
Methyl acetate	9.5		"	10.0		94.7	51-139				
Methyl tert-butyl ether (MTBE)	10		"	10.0		99.6	76-135				
Methylcyclohexane	12		"	10.0		119	72-143				
Methylene chloride	9.0		"	10.0		89.6	55-137				
n-Butylbenzene	12		"	10.0		119	79-132				
n-Propylbenzene	11		"	10.0		113	78-133				
o-Xylene	11		"	10.0		107	78-130				
p- & m- Xylenes	22		"	20.0		110	77-133				
p-Isopropyltoluene	12		"	10.0		119	81-136				
sec-Butylbenzene	12		"	10.0		119	79-137				
Styrene	11		"	10.0		108	67-132				
tert-Butyl alcohol (TBA)	9.1		"	10.0		90.7	25-162				
tert-Butylbenzene	12		"	10.0		116	77-138				
Tetrachloroethylene	10		"	10.0		103	82-131				
Toluene	11		"	10.0		106	80-127				
trans-1,2-Dichloroethylene	9.6		"	10.0		96.4	80-132				
trans-1,3-Dichloropropylene	11		"	10.0		105	78-131				
Trichloroethylene	10		"	10.0		104	82-128				
Trichlorofluoromethane	12		"	10.0		122	67-139				
Vinyl Chloride	12		"	10.0		118	58-145				
Surrogate: 1,2-Dichloroethane-d4	9.56		"	10.0		95.6	69-130				
Surrogate: Toluene-d8	10.4		"	10.0		104	81-117				
Surrogate: p-Bromofluorobenzene	9.93		"	10.0		99.3	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE70223 - EPA 5030B											
LCS Dup (BE70223-BSD1)						Prepared & Analyzed: 05/04/2017					
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		102	82-126		1.68	30	
1,1,1-Trichloroethane	10		"	10.0		102	78-136		5.41	30	
1,1,2,2-Tetrachloroethane	11		"	10.0		106	76-129		4.63	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		110	54-165		5.52	30	
1,1,2-Trichloroethane	11		"	10.0		109	82-123		0.00	30	
1,1-Dichloroethane	9.9		"	10.0		99.2	82-129		3.07	30	
1,1-Dichloroethylene	10		"	10.0		103	68-138		3.06	30	
1,2,3-Trichlorobenzene	18		"	10.0		177	76-136	High Bias	8.61	30	
1,2,3-Trichloropropane	10		"	10.0		104	77-128		0.577	30	
1,2,4-Trichlorobenzene	14		"	10.0		138	76-137	High Bias	8.50	30	
1,2,4-Trimethylbenzene	12		"	10.0		119	82-132		5.09	30	
1,2-Dibromo-3-chloropropane	12		"	10.0		120	45-147		1.16	30	
1,2-Dibromoethane	10		"	10.0		103	83-124		0.194	30	
1,2-Dichlorobenzene	11		"	10.0		111	79-123		1.27	30	
1,2-Dichloroethane	9.3		"	10.0		93.1	73-132		2.50	30	
1,2-Dichloropropane	10		"	10.0		104	78-126		0.771	30	
1,3,5-Trimethylbenzene	12		"	10.0		120	80-131		6.44	30	
1,3-Dichlorobenzene	11		"	10.0		113	86-122		4.36	30	
1,4-Dichlorobenzene	11		"	10.0		114	85-124		5.05	30	
1,4-Dioxane	120		"	200		60.9	10-349		15.2	30	
2-Butanone	4.9		"	10.0		49.3	49-152		64.5	30	Non-dir.
2-Hexanone	10		"	10.0		101	51-146		4.36	30	
4-Methyl-2-pentanone	10		"	10.0		104	57-145		1.72	30	
Acetone	8.0		"	10.0		80.4	14-150		10.7	30	
Acrolein	9.7		"	10.0		97.2	10-153		12.6	30	
Acrylonitrile	7.3		"	10.0		72.8	51-150		33.6	30	Non-dir.
Benzene	10		"	10.0		99.7	85-126		2.75	30	
Bromochloromethane	9.9		"	10.0		99.3	77-128		2.96	30	
Bromodichloromethane	10		"	10.0		104	79-128		3.04	30	
Bromoform	10		"	10.0		99.8	78-133		1.29	30	
Bromomethane	11		"	10.0		112	43-168		8.55	30	
Carbon disulfide	10		"	10.0		104	68-146		3.31	30	
Carbon tetrachloride	10		"	10.0		103	77-141		5.27	30	
Chlorobenzene	10		"	10.0		104	88-120		1.25	30	
Chloroethane	11		"	10.0		109	65-136		1.85	30	
Chloroform	9.9		"	10.0		98.9	82-128		4.66	30	
Chloromethane	12		"	10.0		120	43-155		0.584	30	
cis-1,2-Dichloroethylene	10		"	10.0		99.5	83-129		3.37	30	
cis-1,3-Dichloropropylene	11		"	10.0		106	80-131		0.0945	30	
Cyclohexane	11		"	10.0		113	63-149		5.81	30	
Dibromochloromethane	10		"	10.0		104	80-130		1.95	30	
Dibromomethane	9.8		"	10.0		98.1	72-134		2.52	30	
Dichlorodifluoromethane	16		"	10.0		157	44-144	High Bias	4.42	30	
Ethyl Benzene	11		"	10.0		109	80-131		2.32	30	
Hexachlorobutadiene	14		"	10.0		141	67-146		0.353	30	
Isopropylbenzene	12		"	10.0		122	76-140		6.68	30	
Methyl acetate	9.2		"	10.0		92.0	51-139		2.89	30	
Methyl tert-butyl ether (MTBE)	9.9		"	10.0		99.1	76-135		0.503	30	
Methylcyclohexane	12		"	10.0		123	72-143		3.32	30	
Methylene chloride	9.1		"	10.0		90.8	55-137		1.33	30	
n-Butylbenzene	13		"	10.0		125	79-132		5.24	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

Batch BE70223 - EPA 5030B

LCS Dup (BE70223-BSD1)

Prepared & Analyzed: 05/04/2017

n-Propylbenzene	12		ug/L	10.0		121	78-133		6.41	30	
o-Xylene	11		"	10.0		109	78-130		1.75	30	
p- & m- Xylenes	22		"	20.0		111	77-133		1.67	30	
p-Isopropyltoluene	13		"	10.0		126	81-136		5.63	30	
sec-Butylbenzene	13		"	10.0		128	79-137		6.90	30	
Styrene	11		"	10.0		109	67-132		1.20	30	
tert-Butyl alcohol (TBA)	15		"	10.0		154	25-162		51.7	30	Non-dir.
tert-Butylbenzene	13		"	10.0		126	77-138		7.68	30	
Tetrachloroethylene	11		"	10.0		107	82-131		3.72	30	
Toluene	11		"	10.0		107	80-127		1.22	30	
trans-1,2-Dichloroethylene	9.9		"	10.0		99.4	80-132		3.06	30	
trans-1,3-Dichloropropylene	11		"	10.0		106	78-131		0.569	30	
Trichloroethylene	11		"	10.0		105	82-128		1.34	30	
Trichlorofluoromethane	12		"	10.0		122	67-139		0.738	30	
Vinyl Chloride	12		"	10.0		122	58-145		3.58	30	
Surrogate: 1,2-Dichloroethane-d4	9.74		"	10.0		97.4	69-130				
Surrogate: Toluene-d8	10.3		"	10.0		103	81-117				
Surrogate: p-Bromofluorobenzene	10.4		"	10.0		104	79-122				

Batch BE70264 - EPA 5035A

Blank (BE70264-BLK1)

Prepared: 05/04/2017 Analyzed: 05/05/2017

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	"



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

Batch BE70264 - EPA 5035A

Blank (BE70264-BLK1)

Prepared: 05/04/2017 Analyzed: 05/05/2017

Bromoform	ND	5.0	ug/kg wet								
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	"								
n-Butylbenzene	ND	5.0	"								
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	43.0		ug/L	50.0		86.1	77-125				
Surrogate: Toluene-d8	53.2		"	50.0		106	85-120				
Surrogate: p-Bromofluorobenzene	47.0		"	50.0		94.1	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE70264 - EPA 5035A											
LCS (BE70264-BS1)						Prepared: 05/04/2017 Analyzed: 05/05/2017					
1,1,1,2-Tetrachloroethane	57		ug/L	50.0		115	75-129				
1,1,1-Trichloroethane	62		"	50.0		124	71-137				
1,1,2,2-Tetrachloroethane	50		"	50.0		99.6	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	71		"	50.0		143	58-146				
1,1,2-Trichloroethane	52		"	50.0		105	83-123				
1,1-Dichloroethane	56		"	50.0		112	75-130				
1,1-Dichloroethylene	57		"	50.0		113	64-137				
1,2,3-Trichlorobenzene	52		"	50.0		104	81-140				
1,2,3-Trichloropropane	45		"	50.0		90.9	81-126				
1,2,4-Trichlorobenzene	49		"	50.0		98.0	80-141				
1,2,4-Trimethylbenzene	50		"	50.0		101	84-125				
1,2-Dibromo-3-chloropropane	35		"	50.0		70.9	74-142	Low Bias			
1,2-Dibromoethane	57		"	50.0		113	86-123				
1,2-Dichlorobenzene	53		"	50.0		107	85-122				
1,2-Dichloroethane	48		"	50.0		95.3	71-133				
1,2-Dichloropropane	52		"	50.0		104	81-122				
1,3,5-Trimethylbenzene	52		"	50.0		104	82-126				
1,3-Dichlorobenzene	54		"	50.0		108	84-124				
1,4-Dichlorobenzene	54		"	50.0		108	84-124				
1,4-Dioxane	930		"	1000		92.7	10-228				
2-Butanone	51		"	50.0		101	58-147				
2-Hexanone	47		"	50.0		94.5	70-139				
4-Methyl-2-pentanone	46		"	50.0		92.3	72-132				
Acetone	53		"	50.0		106	36-155				
Acrolein	45		"	50.0		90.7	10-238				
Acrylonitrile	52		"	50.0		104	66-141				
Benzene	58		"	50.0		115	77-127				
Bromochloromethane	44		"	50.0		88.0	74-129				
Bromodichloromethane	49		"	50.0		97.6	81-124				
Bromoform	45		"	50.0		90.8	80-136				
Bromomethane	64		"	50.0		127	32-177				
Carbon disulfide	59		"	50.0		119	10-136				
Carbon tetrachloride	63		"	50.0		126	66-143				
Chlorobenzene	57		"	50.0		114	86-120				
Chloroethane	58		"	50.0		116	51-142				
Chloroform	57		"	50.0		113	76-131				
Chloromethane	55		"	50.0		110	49-132				
cis-1,2-Dichloroethylene	68		"	50.0		136	74-132	High Bias			
cis-1,3-Dichloropropylene	47		"	50.0		94.8	81-129				
Cyclohexane	59		"	50.0		118	70-130				
Dibromochloromethane	54		"	50.0		109	10-200				
Dibromomethane	53		"	50.0		107	83-124				
Dichlorodifluoromethane	44		"	50.0		87.9	28-158				
Ethyl Benzene	56		"	50.0		111	84-125				
Hexachlorobutadiene	57		"	50.0		114	83-133				
Isopropylbenzene	53		"	50.0		106	81-127				
Methyl acetate	45		"	50.0		90.9	41-143				
Methyl tert-butyl ether (MTBE)	49		"	50.0		98.9	74-131				
Methylcyclohexane	58		"	50.0		116	70-130				
Methylene chloride	63		"	50.0		125	57-141				
n-Butylbenzene	52		"	50.0		104	80-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BE70264 - EPA 5035A

LCS (BE70264-BS1)

Prepared: 05/04/2017 Analyzed: 05/05/2017

n-Propylbenzene	52		ug/L	50.0		104	74-136				
o-Xylene	54		"	50.0		107	83-123				
p- & m- Xylenes	110		"	100		108	82-128				
p-Isopropyltoluene	53		"	50.0		105	85-125				
sec-Butylbenzene	54		"	50.0		108	83-125				
Styrene	54		"	50.0		107	86-126				
tert-Butyl alcohol (TBA)	43		"	50.0		86.6	70-130				
tert-Butylbenzene	53		"	50.0		106	80-127				
Tetrachloroethylene	54		"	50.0		108	80-129				
Toluene	57		"	50.0		114	85-121				
trans-1,2-Dichloroethylene	58		"	50.0		115	72-132				
trans-1,3-Dichloropropylene	43		"	50.0		86.2	78-132				
Trichloroethylene	60		"	50.0		119	84-123				
Trichlorofluoromethane	64		"	50.0		127	62-140				
Vinyl Chloride	53		"	50.0		106	52-130				
Surrogate: 1,2-Dichloroethane-d4	44.5		"	50.0		88.9	77-125				
Surrogate: Toluene-d8	51.2		"	50.0		102	85-120				
Surrogate: p-Bromofluorobenzene	47.1		"	50.0		94.3	76-130				

LCS Dup (BE70264-BSD1)

Prepared: 05/04/2017 Analyzed: 05/05/2017

1,1,1,2-Tetrachloroethane	58		ug/L	50.0		115	75-129		0.418	30	
1,1,1-Trichloroethane	63		"	50.0		126	71-137		1.89	30	
1,1,2,2-Tetrachloroethane	49		"	50.0		98.5	79-129		1.15	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	73		"	50.0		147	58-146	High Bias	2.94	30	
1,1,2-Trichloroethane	51		"	50.0		103	83-123		2.12	30	
1,1-Dichloroethane	56		"	50.0		112	75-130		0.732	30	
1,1-Dichloroethylene	58		"	50.0		117	64-137		3.08	30	
1,2,3-Trichlorobenzene	56		"	50.0		111	81-140		6.34	30	
1,2,3-Trichloropropane	46		"	50.0		92.9	81-126		2.26	30	
1,2,4-Trichlorobenzene	51		"	50.0		102	80-141		4.35	30	
1,2,4-Trimethylbenzene	53		"	50.0		105	84-125		4.21	30	
1,2-Dibromo-3-chloropropane	38		"	50.0		76.3	74-142		7.31	30	
1,2-Dibromoethane	53		"	50.0		106	86-123		6.76	30	
1,2-Dichlorobenzene	56		"	50.0		112	85-122		5.32	30	
1,2-Dichloroethane	46		"	50.0		92.6	71-133		2.85	30	
1,2-Dichloropropane	52		"	50.0		104	81-122		0.174	30	
1,3,5-Trimethylbenzene	54		"	50.0		108	82-126		3.33	30	
1,3-Dichlorobenzene	56		"	50.0		112	84-124		2.87	30	
1,4-Dichlorobenzene	54		"	50.0		109	84-124		0.608	30	
1,4-Dioxane	930		"	1000		92.6	10-228		0.105	30	
2-Butanone	49		"	50.0		97.8	58-147		3.53	30	
2-Hexanone	45		"	50.0		90.9	70-139		3.88	30	
4-Methyl-2-pentanone	46		"	50.0		91.4	72-132		1.00	30	
Acetone	52		"	50.0		104	36-155		1.39	30	
Acrolein	43		"	50.0		86.9	10-238		4.35	30	
Acrylonitrile	52		"	50.0		104	66-141		0.346	30	
Benzene	58		"	50.0		115	77-127		0.243	30	
Bromochloromethane	43		"	50.0		86.5	74-129		1.77	30	
Bromodichloromethane	47		"	50.0		94.8	81-124		2.89	30	
Bromoform	47		"	50.0		93.6	80-136		2.99	30	
Bromomethane	59		"	50.0		117	32-177		8.51	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

Batch BE70264 - EPA 5035A

LCS Dup (BE70264-BSD1)

Prepared: 05/04/2017 Analyzed: 05/05/2017

Carbon disulfide	61		ug/L	50.0		121	10-136		2.05	30	
Carbon tetrachloride	62		"	50.0		124	66-143		1.77	30	
Chlorobenzene	56		"	50.0		111	86-120		2.24	30	
Chloroethane	59		"	50.0		118	51-142		1.94	30	
Chloroform	57		"	50.0		113	76-131		0.229	30	
Chloromethane	52		"	50.0		105	49-132		4.69	30	
cis-1,2-Dichloroethylene	66		"	50.0		133	74-132	High Bias	2.40	30	
cis-1,3-Dichloropropylene	47		"	50.0		94.9	81-129		0.0422	30	
Cyclohexane	60		"	50.0		119	70-130		1.03	30	
Dibromochloromethane	53		"	50.0		106	10-200		2.81	30	
Dibromomethane	54		"	50.0		109	83-124		1.83	30	
Dichlorodifluoromethane	42		"	50.0		84.5	28-158		3.90	30	
Ethyl Benzene	55		"	50.0		111	84-125		0.414	30	
Hexachlorobutadiene	60		"	50.0		121	83-133		5.82	30	
Isopropylbenzene	56		"	50.0		111	81-127		4.80	30	
Methyl acetate	46		"	50.0		92.8	41-143		2.03	30	
Methyl tert-butyl ether (MTBE)	49		"	50.0		98.8	74-131		0.0809	30	
Methylcyclohexane	56		"	50.0		112	70-130		2.84	30	
Methylene chloride	59		"	50.0		119	57-141		5.40	30	
n-Butylbenzene	54		"	50.0		108	80-130		3.69	30	
n-Propylbenzene	54		"	50.0		109	74-136		3.93	30	
o-Xylene	56		"	50.0		112	83-123		3.74	30	
p- & m- Xylenes	110		"	100		107	82-128		1.58	30	
p-Isopropyltoluene	55		"	50.0		109	85-125		3.77	30	
sec-Butylbenzene	55		"	50.0		111	83-125		2.99	30	
Styrene	53		"	50.0		106	86-126		0.675	30	
tert-Butyl alcohol (TBA)	44		"	50.0		88.5	70-130		2.17	30	
tert-Butylbenzene	55		"	50.0		109	80-127		2.62	30	
Tetrachloroethylene	53		"	50.0		107	80-129		1.77	30	
Toluene	57		"	50.0		115	85-121		0.385	30	
trans-1,2-Dichloroethylene	56		"	50.0		112	72-132		2.90	30	
trans-1,3-Dichloropropylene	43		"	50.0		86.0	78-132		0.232	30	
Trichloroethylene	59		"	50.0		119	84-123		0.537	30	
Trichlorofluoromethane	65		"	50.0		129	62-140		1.53	30	
Vinyl Chloride	54		"	50.0		107	52-130		0.692	30	
Surrogate: 1,2-Dichloroethane-d4	45.3		"	50.0		90.6	77-125				
Surrogate: Toluene-d8	51.2		"	50.0		102	85-120				
Surrogate: p-Bromofluorobenzene	47.8		"	50.0		95.6	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BE70264 - EPA 5035A

Matrix Spike (BE70264-MS1)		*Source sample: 17D1104-02 (North-NE-Corner-MS/MSD)					Prepared: 05/04/2017 Analyzed: 05/05/2017				
1,1,1,2-Tetrachloroethane	28		ug/L	50.0	ND	56.6	15-161				
1,1,1-Trichloroethane	54		"	50.0	ND	108	42-145				
1,1,2,2-Tetrachloroethane	47		"	50.0	ND	93.6	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	63		"	50.0	ND	127	11-160				
1,1,2-Trichloroethane	43		"	50.0	ND	86.4	44-145				
1,1-Dichloroethane	50		"	50.0	ND	101	46-142				
1,1-Dichloroethylene	53		"	50.0	ND	107	30-153				
1,2,3-Trichlorobenzene	15		"	50.0	ND	30.9	10-157				
1,2,3-Trichloropropane	45		"	50.0	ND	90.0	38-155				
1,2,4-Trichlorobenzene	17		"	50.0	ND	33.1	10-151				
1,2,4-Trimethylbenzene	47		"	50.0	ND	93.6	10-170				
1,2-Dibromo-3-chloropropane	25		"	50.0	ND	50.6	36-138				
1,2-Dibromoethane	32		"	50.0	ND	64.7	40-142				
1,2-Dichlorobenzene	34		"	50.0	ND	68.5	10-147				
1,2-Dichloroethane	35		"	50.0	ND	70.9	48-133				
1,2-Dichloropropane	49		"	50.0	ND	98.4	47-141				
1,3,5-Trimethylbenzene	51		"	50.0	ND	102	10-150				
1,3-Dichlorobenzene	35		"	50.0	ND	69.6	10-144				
1,4-Dichlorobenzene	30		"	50.0	ND	60.5	10-160				
1,4-Dioxane	920		"	1000	ND	91.6	10-191				
2-Butanone	47		"	50.0	4.4	85.3	10-189				
2-Hexanone	35		"	50.0	ND	69.8	10-181				
4-Methyl-2-pentanone	38		"	50.0	ND	75.0	10-166				
Acetone	76		"	50.0	20	112	10-196				
Acrolein	30		"	50.0	ND	59.8	10-192				
Acrylonitrile	25		"	50.0	ND	50.6	13-161				
Benzene	49		"	50.0	ND	98.8	43-139				
Bromochloromethane	35		"	50.0	ND	71.0	38-145				
Bromodichloromethane	25		"	50.0	ND	50.1	38-147				
Bromoform	17		"	50.0	ND	34.0	29-156				
Bromomethane	34		"	50.0	ND	68.9	10-166				
Carbon disulfide	52		"	50.0	14	77.2	10-131				
Carbon tetrachloride	35		"	50.0	ND	70.9	35-145				
Chlorobenzene	39		"	50.0	ND	77.8	21-154				
Chloroethane	53		"	50.0	ND	107	15-160				
Chloroform	51		"	50.0	ND	102	47-142				
Chloromethane	51		"	50.0	ND	101	10-159				
cis-1,2-Dichloroethylene	48		"	50.0	ND	96.6	42-144				
cis-1,3-Dichloropropylene	15		"	50.0	ND	30.8	18-159				
Cyclohexane	48		"	50.0	ND	96.5	70-130				
Dibromochloromethane	20		"	50.0	ND	39.4	10-179				
Dibromomethane	41		"	50.0	ND	82.2	47-143				
Dichlorodifluoromethane	40		"	50.0	ND	79.9	10-145				
Ethyl Benzene	46		"	50.0	ND	91.3	11-158				
Hexachlorobutadiene	29		"	50.0	ND	58.4	10-158				
Isopropylbenzene	59		"	50.0	ND	118	10-162				
Methyl acetate	37		"	50.0	ND	74.4	10-149				
Methyl tert-butyl ether (MTBE)	43		"	50.0	ND	85.3	42-152				
Methylcyclohexane	43		"	50.0	ND	86.7	70-130				
Methylene chloride	55		"	50.0	1.8	106	28-151				
n-Butylbenzene	40		"	50.0	ND	80.1	10-162				



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
Batch BE70264 - EPA 5035A											
Matrix Spike (BE70264-MS1)		*Source sample: 17D1104-02 (North-NE-Corner-MS/MSD)						Prepared: 05/04/2017 Analyzed: 05/05/2017			
n-Propylbenzene	50		ug/L	50.0	ND	101	10-155				
o-Xylene	44		"	50.0	ND	88.1	10-158				
p- & m- Xylenes	86		"	100	ND	86.2	10-156				
p-Isopropyltoluene	46		"	50.0	ND	92.7	10-147				
sec-Butylbenzene	51		"	50.0	ND	102	10-157				
Styrene	20		"	50.0	ND	40.4	13-171				
tert-Butyl alcohol (TBA)	36		"	50.0	ND	72.6	34-179				
tert-Butylbenzene	54		"	50.0	ND	108	10-160				
Tetrachloroethylene	57		"	50.0	ND	115	30-167				
Toluene	49		"	50.0	ND	97.1	21-160				
trans-1,2-Dichloroethylene	36		"	50.0	ND	71.5	29-153				
trans-1,3-Dichloropropylene	14		"	50.0	ND	28.5	18-155				
Trichloroethylene	57		"	50.0	ND	113	24-169				
Trichlorofluoromethane	56		"	50.0	ND	112	35-142				
Vinyl Chloride	48		"	50.0	ND	95.4	12-160				
Surrogate: 1,2-Dichloroethane-d4	42.7		"	50.0		85.4	77-125				
Surrogate: Toluene-d8	55.0		"	50.0		110	85-120				
Surrogate: p-Bromofluorobenzene	54.9		"	50.0		110	70-130				
Matrix Spike Dup (BE70264-MSD1)		*Source sample: 17D1104-02 (North-NE-Corner-MS/MSD)						Prepared: 05/04/2017 Analyzed: 05/05/2017			
1,1,1,2-Tetrachloroethane	37		ug/L	50.0	ND	73.1	15-161		25.4	33	
1,1,1-Trichloroethane	58		"	50.0	ND	115	42-145		6.23	30	
1,1,2,2-Tetrachloroethane	55		"	50.0	ND	110	16-167		16.2	56	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	61		"	50.0	ND	121	11-160		4.40	31	
1,1,2-Trichloroethane	45		"	50.0	ND	89.7	44-145		3.68	40	
1,1-Dichloroethane	52		"	50.0	ND	105	46-142		3.76	36	
1,1-Dichloroethylene	51		"	50.0	ND	102	30-153		4.37	31	
1,2,3-Trichlorobenzene	11		"	50.0	ND	22.7	10-157		30.7	47	
1,2,3-Trichloropropane	53		"	50.0	ND	106	38-155		16.5	48	
1,2,4-Trichlorobenzene	12		"	50.0	ND	23.8	10-151		32.5	52	
1,2,4-Trimethylbenzene	43		"	50.0	ND	85.6	10-170		8.88	242	
1,2-Dibromo-3-chloropropane	33		"	50.0	ND	66.3	36-138		27.0	54	
1,2-Dibromoethane	33		"	50.0	ND	66.3	40-142		2.53	39	
1,2-Dichlorobenzene	31		"	50.0	ND	62.1	10-147		9.80	52	
1,2-Dichloroethane	37		"	50.0	ND	73.1	48-133		3.06	32	
1,2-Dichloropropane	50		"	50.0	ND	101	47-141		2.43	37	
1,3,5-Trimethylbenzene	45		"	50.0	ND	89.6	10-150		12.8	62	
1,3-Dichlorobenzene	29		"	50.0	ND	58.1	10-144		18.0	51	
1,4-Dichlorobenzene	26		"	50.0	ND	52.4	10-160		14.4	52	
1,4-Dioxane	1200		"	1000	ND	125	10-191		30.8	196	
2-Butanone	52		"	50.0	4.4	95.4	10-189		10.2	67	
2-Hexanone	41		"	50.0	ND	81.1	10-181		15.1	60	
4-Methyl-2-pentanone	40		"	50.0	ND	80.0	10-166		6.37	47	
Acetone	85		"	50.0	20	129	10-196		11.0	150	
Acrolein	33		"	50.0	ND	65.7	10-192		9.44	128	
Acrylonitrile	27		"	50.0	ND	53.7	13-161		6.02	48	
Benzene	51		"	50.0	ND	102	43-139		2.85	64	
Bromochloromethane	39		"	50.0	ND	78.5	38-145		10.0	30	
Bromodichloromethane	31		"	50.0	ND	62.1	38-147		21.4	37	
Bromoform	30		"	50.0	ND	59.1	29-156		54.1	51	Non-dir.
Bromomethane	31		"	50.0	ND	62.9	10-166		9.19	42	



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
Batch BE70264 - EPA 5035A											
Matrix Spike Dup (BE70264-MSD1)		*Source sample: 17D1104-02 (North-NE-Corner-MS/MSD)					Prepared: 05/04/2017 Analyzed: 05/05/2017				
Carbon disulfide	73		ug/L	50.0	14	118	10-131		32.9	36	
Carbon tetrachloride	38		"	50.0	ND	76.0	35-145		6.94	31	
Chlorobenzene	37		"	50.0	ND	73.4	21-154		5.93	32	
Chloroethane	57		"	50.0	ND	114	15-160		6.41	40	
Chloroform	52		"	50.0	ND	104	47-142		1.99	29	
Chloromethane	51		"	50.0	ND	101	10-159		0.118	31	
cis-1,2-Dichloroethylene	49		"	50.0	ND	98.7	42-144		2.19	30	
cis-1,3-Dichloropropylene	12		"	50.0	ND	23.7	18-159		26.3	39	
Cyclohexane	46		"	50.0	ND	91.6	70-130		5.21	30	
Dibromochloromethane	28		"	50.0	ND	55.9	10-179		34.6	41	
Dibromomethane	41		"	50.0	ND	82.3	47-143		0.146	41	
Dichlorodifluoromethane	40		"	50.0	ND	79.0	10-145		1.16	34	
Ethyl Benzene	42		"	50.0	ND	84.0	11-158		8.30	42	
Hexachlorobutadiene	14		"	50.0	ND	27.7	10-158		71.3	45	Non-dir.
Isopropylbenzene	54		"	50.0	ND	109	10-162		8.56	57	
Methyl acetate	35		"	50.0	ND	70.3	10-149		5.69	64	
Methyl tert-butyl ether (MTBE)	47		"	50.0	ND	93.1	42-152		8.75	47	
Methylcyclohexane	33		"	50.0	ND	65.4	70-130	Low Bias	28.0	30	
Methylene chloride	54		"	50.0	1.8	105	28-151		1.07	49	
n-Butylbenzene	28		"	50.0	ND	55.5	10-162		36.2	96	
n-Propylbenzene	43		"	50.0	ND	86.3	10-155		15.4	56	
o-Xylene	42		"	50.0	ND	83.7	10-158		5.05	51	
p- & m- Xylenes	79		"	100	ND	79.2	10-156		8.55	47	
p-Isopropyltoluene	37		"	50.0	ND	74.3	10-147		22.1	60	
sec-Butylbenzene	38		"	50.0	ND	76.9	10-157		27.8	56	
Styrene	8.0		"	50.0	ND	16.0	13-171		86.5	39	Non-dir.
tert-Butyl alcohol (TBA)	48		"	50.0	ND	95.1	34-179		26.8	35	
tert-Butylbenzene	45		"	50.0	ND	89.9	10-160		18.6	79	
Tetrachloroethylene	51		"	50.0	ND	102	30-167		12.0	33	
Toluene	48		"	50.0	ND	96.3	21-160		0.807	50	
trans-1,2-Dichloroethylene	35		"	50.0	ND	69.6	29-153		2.78	30	
trans-1,3-Dichloropropylene	12		"	50.0	ND	23.3	18-155		20.2	30	
Trichloroethylene	52		"	50.0	ND	104	24-169		8.56	30	
Trichlorofluoromethane	58		"	50.0	ND	117	35-142		3.99	30	
Vinyl Chloride	52		"	50.0	ND	103	12-160		7.74	35	
Surrogate: 1,2-Dichloroethane-d4	47.1		"	50.0		94.3	77-125				
Surrogate: Toluene-d8	57.0		"	50.0		114	85-120				
Surrogate: p-Bromofluorobenzene	60.0		"	50.0		120	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BE70333 - EPA 5035A

Blank (BE70333-BLK1)

Prepared: 05/05/2017 Analyzed: 05/06/2017

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	"
n-Butylbenzene	ND	5.0	"



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

Batch BE70333 - EPA 5035A

Blank (BE70333-BLK1)

Prepared: 05/05/2017 Analyzed: 05/06/2017

n-Propylbenzene	ND	5.0	ug/kg wet
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	45.4	ug/L	50.0	90.8	77-125
Surrogate: Toluene-d8	55.7	"	50.0	111	85-120
Surrogate: p-Bromofluorobenzene	44.0	"	50.0	88.0	76-130

Blank (BE70333-BLK2)

Prepared: 05/05/2017 Analyzed: 05/06/2017

1,1,1,2-Tetrachloroethane	ND	500	ug/kg wet
1,1,1-Trichloroethane	ND	500	"
1,1,2,2-Tetrachloroethane	ND	500	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	500	"
1,1,2-Trichloroethane	ND	500	"
1,1-Dichloroethane	ND	500	"
1,1-Dichloroethylene	ND	500	"
1,2,3-Trichlorobenzene	ND	500	"
1,2,3-Trichloropropane	ND	500	"
1,2,4-Trichlorobenzene	ND	500	"
1,2,4-Trimethylbenzene	ND	500	"
1,2-Dibromo-3-chloropropane	ND	500	"
1,2-Dibromoethane	ND	500	"
1,2-Dichlorobenzene	ND	500	"
1,2-Dichloroethane	ND	500	"
1,2-Dichloropropane	ND	500	"
1,3,5-Trimethylbenzene	ND	500	"
1,3-Dichlorobenzene	ND	500	"
1,4-Dichlorobenzene	ND	500	"
1,4-Dioxane	ND	10000	"
2-Butanone	ND	500	"
2-Hexanone	ND	500	"
4-Methyl-2-pentanone	ND	500	"
Acetone	ND	1000	"
Acrolein	ND	1000	"
Acrylonitrile	ND	500	"
Benzene	ND	500	"
Bromochloromethane	ND	500	"
Bromodichloromethane	ND	500	"
Bromoform	ND	500	"



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

Batch BE70333 - EPA 5035A

Blank (BE70333-BLK2)

Prepared: 05/05/2017 Analyzed: 05/06/2017

Bromomethane	ND	500	ug/kg wet								
Carbon disulfide	ND	500	"								
Carbon tetrachloride	ND	500	"								
Chlorobenzene	ND	500	"								
Chloroethane	ND	500	"								
Chloroform	ND	500	"								
Chloromethane	ND	500	"								
cis-1,2-Dichloroethylene	ND	500	"								
cis-1,3-Dichloropropylene	ND	500	"								
Cyclohexane	ND	500	"								
Dibromochloromethane	ND	500	"								
Dibromomethane	ND	500	"								
Dichlorodifluoromethane	ND	500	"								
Ethyl Benzene	ND	500	"								
Hexachlorobutadiene	ND	500	"								
Isopropylbenzene	ND	500	"								
Methyl acetate	ND	500	"								
Methyl tert-butyl ether (MTBE)	ND	500	"								
Methylcyclohexane	ND	500	"								
Methylene chloride	ND	1000	"								
n-Butylbenzene	ND	500	"								
n-Propylbenzene	ND	500	"								
o-Xylene	ND	500	"								
p- & m- Xylenes	ND	1000	"								
p-Isopropyltoluene	ND	500	"								
sec-Butylbenzene	ND	500	"								
Styrene	ND	500	"								
tert-Butyl alcohol (TBA)	ND	500	"								
tert-Butylbenzene	ND	500	"								
Tetrachloroethylene	ND	500	"								
Toluene	ND	500	"								
trans-1,2-Dichloroethylene	ND	500	"								
trans-1,3-Dichloropropylene	ND	500	"								
Trichloroethylene	ND	500	"								
Trichlorofluoromethane	ND	500	"								
Vinyl Chloride	ND	500	"								
Xylenes, Total	ND	1500	"								
Surrogate: 1,2-Dichloroethane-d4	47.5		ug/L	50.0		95.0	77-125				
Surrogate: Toluene-d8	55.7		"	50.0		111	85-120				
Surrogate: p-Bromofluorobenzene	44.6		"	50.0		89.3	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BE70333 - EPA 5035A

LCS (BE70333-BS1)

Prepared: 05/05/2017 Analyzed: 05/06/2017

1,1,1,2-Tetrachloroethane	59		ug/L	50.0		118	75-129				
1,1,1-Trichloroethane	62		"	50.0		124	71-137				
1,1,2,2-Tetrachloroethane	51		"	50.0		102	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	71		"	50.0		141	58-146				
1,1,2-Trichloroethane	54		"	50.0		108	83-123				
1,1-Dichloroethane	57		"	50.0		114	75-130				
1,1-Dichloroethylene	58		"	50.0		116	64-137				
1,2,3-Trichlorobenzene	55		"	50.0		110	81-140				
1,2,3-Trichloropropane	51		"	50.0		102	81-126				
1,2,4-Trichlorobenzene	52		"	50.0		104	80-141				
1,2,4-Trimethylbenzene	54		"	50.0		108	84-125				
1,2-Dibromo-3-chloropropane	37		"	50.0		74.0	74-142				
1,2-Dibromoethane	59		"	50.0		118	86-123				
1,2-Dichlorobenzene	59		"	50.0		118	85-122				
1,2-Dichloroethane	48		"	50.0		96.6	71-133				
1,2-Dichloropropane	55		"	50.0		109	81-122				
1,3,5-Trimethylbenzene	55		"	50.0		110	82-126				
1,3-Dichlorobenzene	60		"	50.0		120	84-124				
1,4-Dichlorobenzene	57		"	50.0		114	84-124				
1,4-Dioxane	890		"	1000		89.3	10-228				
2-Butanone	49		"	50.0		98.0	58-147				
2-Hexanone	47		"	50.0		93.4	70-139				
4-Methyl-2-pentanone	45		"	50.0		90.1	72-132				
Acetone	48		"	50.0		96.4	36-155				
Acrolein	42		"	50.0		84.6	10-238				
Acrylonitrile	49		"	50.0		98.1	66-141				
Benzene	58		"	50.0		115	77-127				
Bromochloromethane	72		"	50.0		144	74-129	High Bias			
Bromodichloromethane	52		"	50.0		104	81-124				
Bromoform	49		"	50.0		98.3	80-136				
Bromomethane	60		"	50.0		121	32-177				
Carbon disulfide	61		"	50.0		122	10-136				
Carbon tetrachloride	63		"	50.0		125	66-143				
Chlorobenzene	60		"	50.0		120	86-120				
Chloroethane	55		"	50.0		110	51-142				
Chloroform	57		"	50.0		113	76-131				
Chloromethane	54		"	50.0		107	49-132				
cis-1,2-Dichloroethylene	67		"	50.0		134	74-132	High Bias			
cis-1,3-Dichloropropylene	51		"	50.0		102	81-129				
Cyclohexane	55		"	50.0		110	70-130				
Dibromochloromethane	55		"	50.0		110	10-200				
Dibromomethane	57		"	50.0		114	83-124				
Dichlorodifluoromethane	45		"	50.0		90.1	28-158				
Ethyl Benzene	58		"	50.0		116	84-125				
Hexachlorobutadiene	64		"	50.0		127	83-133				
Isopropylbenzene	58		"	50.0		115	81-127				
Methyl acetate	44		"	50.0		87.2	41-143				
Methyl tert-butyl ether (MTBE)	50		"	50.0		101	74-131				
Methylcyclohexane	57		"	50.0		115	70-130				
Methylene chloride	64		"	50.0		128	57-141				
n-Butylbenzene	55		"	50.0		111	80-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE70333 - EPA 5035A											
LCS (BE70333-BS1)						Prepared: 05/05/2017 Analyzed: 05/06/2017					
n-Propylbenzene	56		ug/L	50.0		112	74-136				
o-Xylene	56		"	50.0		111	83-123				
p- & m- Xylenes	110		"	100		113	82-128				
p-Isopropyltoluene	57		"	50.0		114	85-125				
sec-Butylbenzene	58		"	50.0		117	83-125				
Styrene	57		"	50.0		114	86-126				
tert-Butyl alcohol (TBA)	39		"	50.0		77.2	70-130				
tert-Butylbenzene	58		"	50.0		115	80-127				
Tetrachloroethylene	55		"	50.0		111	80-129				
Toluene	60		"	50.0		119	85-121				
trans-1,2-Dichloroethylene	57		"	50.0		115	72-132				
trans-1,3-Dichloropropylene	47		"	50.0		94.3	78-132				
Trichloroethylene	63		"	50.0		125	84-123	High Bias			
Trichlorofluoromethane	60		"	50.0		120	62-140				
Vinyl Chloride	54		"	50.0		107	52-130				
Surrogate: 1,2-Dichloroethane-d4	45.5		"	50.0		91.1	77-125				
Surrogate: Toluene-d8	55.0		"	50.0		110	85-120				
Surrogate: p-Bromofluorobenzene	46.7		"	50.0		93.4	76-130				
LCS Dup (BE70333-BSD1)						Prepared: 05/05/2017 Analyzed: 05/06/2017					
1,1,1,2-Tetrachloroethane	62		ug/L	50.0		124	75-129		4.83	30	
1,1,1-Trichloroethane	63		"	50.0		126	71-137		1.97	30	
1,1,2,2-Tetrachloroethane	54		"	50.0		107	79-129		5.15	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	72		"	50.0		143	58-146		1.52	30	
1,1,2-Trichloroethane	53		"	50.0		106	83-123		1.16	30	
1,1-Dichloroethane	57		"	50.0		114	75-130		0.597	30	
1,1-Dichloroethylene	58		"	50.0		116	64-137		0.552	30	
1,2,3-Trichlorobenzene	56		"	50.0		112	81-140		2.17	30	
1,2,3-Trichloropropane	52		"	50.0		103	81-126		1.81	30	
1,2,4-Trichlorobenzene	55		"	50.0		110	80-141		5.58	30	
1,2,4-Trimethylbenzene	57		"	50.0		114	84-125		5.34	30	
1,2-Dibromo-3-chloropropane	37		"	50.0		74.2	74-142		0.270	30	
1,2-Dibromoethane	60		"	50.0		120	86-123		1.92	30	
1,2-Dichlorobenzene	59		"	50.0		119	85-122		0.558	30	
1,2-Dichloroethane	47		"	50.0		94.5	71-133		2.22	30	
1,2-Dichloropropane	54		"	50.0		108	81-122		1.23	30	
1,3,5-Trimethylbenzene	57		"	50.0		113	82-126		3.09	30	
1,3-Dichlorobenzene	60		"	50.0		120	84-124		0.0499	30	
1,4-Dichlorobenzene	60		"	50.0		121	84-124		6.03	30	
1,4-Dioxane	870		"	1000		87.2	10-228		2.46	30	
2-Butanone	50		"	50.0		101	58-147		2.86	30	
2-Hexanone	47		"	50.0		94.5	70-139		1.13	30	
4-Methyl-2-pentanone	45		"	50.0		90.2	72-132		0.200	30	
Acetone	50		"	50.0		101	36-155		4.24	30	
Acrolein	41		"	50.0		82.0	10-238		3.12	30	
Acrylonitrile	50		"	50.0		99.3	66-141		1.16	30	
Benzene	58		"	50.0		115	77-127		0.0694	30	
Bromochloromethane	72		"	50.0		144	74-129	High Bias	0.222	30	
Bromodichloromethane	51		"	50.0		101	81-124		2.59	30	
Bromoform	49		"	50.0		98.4	80-136		0.183	30	
Bromomethane	61		"	50.0		122	32-177		0.808	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

Batch BE70333 - EPA 5035A

LCS Dup (BE70333-BSD1)

Prepared: 05/05/2017 Analyzed: 05/06/2017

Carbon disulfide	60		ug/L	50.0		121	10-136		1.25	30	
Carbon tetrachloride	61		"	50.0		122	66-143		2.78	30	
Chlorobenzene	60		"	50.0		120	86-120		0.0333	30	
Chloroethane	58		"	50.0		116	51-142		4.57	30	
Chloroform	56		"	50.0		112	76-131		0.816	30	
Chloromethane	53		"	50.0		106	49-132		1.16	30	
cis-1,2-Dichloroethylene	70		"	50.0		139	74-132	High Bias	3.48	30	
cis-1,3-Dichloropropylene	52		"	50.0		104	81-129		1.34	30	
Cyclohexane	56		"	50.0		112	70-130		1.13	30	
Dibromochloromethane	56		"	50.0		113	10-200		2.77	30	
Dibromomethane	57		"	50.0		114	83-124		0.351	30	
Dichlorodifluoromethane	45		"	50.0		90.3	28-158		0.177	30	
Ethyl Benzene	59		"	50.0		119	84-125		2.18	30	
Hexachlorobutadiene	65		"	50.0		130	83-133		2.05	30	
Isopropylbenzene	59		"	50.0		119	81-127		3.13	30	
Methyl acetate	44		"	50.0		88.2	41-143		1.23	30	
Methyl tert-butyl ether (MTBE)	48		"	50.0		95.9	74-131		4.84	30	
Methylcyclohexane	56		"	50.0		113	70-130		1.74	30	
Methylene chloride	63		"	50.0		126	57-141		1.39	30	
n-Butylbenzene	56		"	50.0		112	80-130		0.899	30	
n-Propylbenzene	57		"	50.0		114	74-136		1.69	30	
o-Xylene	57		"	50.0		115	83-123		2.81	30	
p- & m- Xylenes	110		"	100		113	82-128		0.796	30	
p-Isopropyltoluene	58		"	50.0		115	85-125		1.47	30	
sec-Butylbenzene	60		"	50.0		120	83-125		2.43	30	
Styrene	58		"	50.0		115	86-126		1.38	30	
tert-Butyl alcohol (TBA)	41		"	50.0		81.1	70-130		4.88	30	
tert-Butylbenzene	60		"	50.0		121	80-127		4.68	30	
Tetrachloroethylene	57		"	50.0		114	80-129		3.09	30	
Toluene	61		"	50.0		122	85-121	High Bias	2.16	30	
trans-1,2-Dichloroethylene	58		"	50.0		116	72-132		0.835	30	
trans-1,3-Dichloropropylene	48		"	50.0		95.5	78-132		1.31	30	
Trichloroethylene	65		"	50.0		129	84-123	High Bias	3.13	30	
Trichlorofluoromethane	62		"	50.0		124	62-140		3.72	30	
Vinyl Chloride	54		"	50.0		109	52-130		1.17	30	
Surrogate: 1,2-Dichloroethane-d4	46.6		"	50.0		93.2	77-125				
Surrogate: Toluene-d8	55.5		"	50.0		111	85-120				
Surrogate: p-Bromofluorobenzene	46.5		"	50.0		93.0	76-130				



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

Batch BE70312 - % Solids Prep

Duplicate (BE70312-DUP1)		*Source sample: 17D1104-02 (North-NE-Corner-MS/MSD)						Prepared & Analyzed: 05/05/2017			
% Solids	61.4	0.100	%		61.3				0.186	20	



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
17D1104-01	North-NW-Corner	40mL Vial with Stir Bar-Cool 4° C
17D1104-02	North-NE-Corner-MS/MSD	40mL Vial with Stir Bar-Cool 4° C
17D1104-03	North-SE-Corner	40mL Vial with Stir Bar-Cool 4° C
17D1104-04	North-SW-Corner	40mL Vial with Stir Bar-Cool 4° C
17D1104-05	North-BW-Bottom 1	40mL Vial with Stir Bar-Cool 4° C
17D1104-06	North-BE-Bottom 2	40mL Vial with Stir Bar-Cool 4° C
17D1104-07	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Notes and Definitions

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
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).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

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

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

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



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

Certification for pH is no longer offered by NYDOH ELAP.

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

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

Field Chain-of-Custody Record

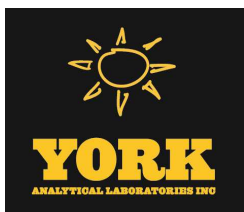
Page 1 of 1

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

(203) 325-1371
FAX (203) 357-0166

York Project No. _____

[illegible]



Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive

New Haven CT, 06511

Attention: John FitzPatrick

Report Date: 12/10/2018

Client Project ID: 140177001

York Project (SDG) No.: 18L0240



CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037

New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

Report Date: 12/10/2018
Client Project ID: 140177001
York Project (SDG) No.: 18L0240

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: John FitzPatrick

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 06, 2018 and listed below. The project was identified as your project: **140177001**.

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>
18L0240-01	LMW-1_2018.12.05	Water	12/05/2018	12/06/2018
18L0240-02	LMW-2_2018.12.05	Water	12/05/2018	12/06/2018
18L0240-03	MW-1_2018.12.05	Water	12/05/2018	12/06/2018
18L0240-04	PEW-1_2018.12.05	Water	12/05/2018	12/06/2018
18L0240-05	DUP-1_2018.12.05	Water	12/05/2018	12/06/2018
18L0240-06	Trip Blank	Water	12/05/2018	12/06/2018

General Notes for York Project (SDG) No.: 18L0240

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

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 12/10/2018





Sample Information

Client Sample ID: LMW-1_2018.12.05

York Sample ID: 18L0240-01

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 10:50 am

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS



Sample Information

Client Sample ID: LMW-1_2018.12.05

York Sample ID: 18L0240-01

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 10:50 am

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
75-25-2	Bromoform	0.330		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
156-59-2	cis-1,2-Dichloroethylene	0.240		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS



Sample Information

Client Sample ID: LMW-1_2018.12.05

York Sample ID: 18L0240-01

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 10:50 am

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	0.380		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS



Sample Information

Client Sample ID: LMW-1_2018.12.05

York Sample ID: 18L0240-01

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 10:50 am

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	0.380	CCV-E	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:29	RDS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/10/2018 07:30	12/10/2018 13:29	RDS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	102 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	86.6 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	93.6 %	79-122								

Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	7.55		mg/L	0.278	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/07/2018 12:25	12/10/2018 16:33	BML

Manganese by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	0.639		mg/L	0.00556	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/07/2018 12:25	12/10/2018 16:33	BML

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	569		mg/L	50.0	100	EPA 300.0 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/10/2018 10:46	12/10/2018 16:40	AD

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/06/2018 10:15	12/06/2018 17:36	AD

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	101		mg/L	100	100	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/10/2018 10:46	12/10/2018 16:40	AD



Sample Information

Client Sample ID: LMW-1_2018.12.05

York Sample ID: 18L0240-01

York Project (SDG) No.
18L0240

Client Project ID
140177001

Matrix
Water

Collection Date/Time
December 5, 2018 10:50 am

Date Received
12/06/2018

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	570		mg/L	2.0	1	SM 2320B	12/10/2018 11:27	12/10/2018 19:02	PAM
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Salinity

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Salinity	1.10		parts/thous and	0.100	1	SM 2520B	12/10/2018 13:32	12/10/2018 15:39	PAM
Certifications:										

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	3.49		mg/L	1.00	1	SM 5310C	12/07/2018 07:14	12/10/2018 13:06	AD
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										



Sample Information

Client Sample ID: LMW-2_2018.12.05

York Sample ID: 18L0240-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0240

140177001

Water

December 5, 2018 12:55 pm

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
75-35-4	1,1-Dichloroethylene	0.750		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS



Sample Information

Client Sample ID: LMW-2_2018.12.05

York Sample ID: 18L0240-02

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 12:55 pm

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
71-43-2	Benzene	4.72		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
156-59-2	cis-1,2-Dichloroethylene	298		ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 14:27	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
110-82-7	Cyclohexane	3.14		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS



Sample Information

Client Sample ID: LMW-2_2018.12.05

York Sample ID: 18L0240-02

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 12:55 pm

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
98-82-8	Isopropylbenzene	0.220		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	0.260		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
108-87-2	Methylcyclohexane	0.360		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
108-88-3	Toluene	0.230		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
156-60-5	trans-1,2-Dichloroethylene	6.15		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS



Sample Information

Client Sample ID: LMW-2_2018.12.05

York Sample ID: 18L0240-02

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 12:55 pm

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 19:33	RDS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2018 07:30	12/07/2018 19:33	RDS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	104 %			69-130						
2037-26-5	Surrogate: SURR: Toluene-d8	99.8 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	96.8 %			79-122						

Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	1.79		mg/L	0.278	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/07/2018 12:25	12/10/2018 16:35	BML

Manganese by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	0.310		mg/L	0.00556	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/07/2018 12:25	12/10/2018 16:35	BML

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	1670		mg/L	50.0	100	EPA 300.0 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/10/2018 10:46	12/10/2018 17:05	AD

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	0.459		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/06/2018 10:15	12/06/2018 18:49	AD

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	204		mg/L	100	100	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/10/2018 10:46	12/10/2018 17:05	AD



Sample Information

Client Sample ID: LMW-2_2018.12.05

York Sample ID: 18L0240-02

York Project (SDG) No.
18L0240

Client Project ID
140177001

Matrix
Water

Collection Date/Time
December 5, 2018 12:55 pm

Date Received
12/06/2018

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	670		mg/L	2.0	1	SM 2320B	12/10/2018 11:27	12/10/2018 19:02	PAM
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Salinity

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Salinity	2.80		parts/thous and	0.100	1	SM 2520B	12/10/2018 13:32	12/10/2018 15:39	PAM
Certifications:										

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	7.71		mg/L	1.00	1	SM 5310C	12/07/2018 07:14	12/10/2018 13:06	AD
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										



Sample Information

Client Sample ID: MW-1_2018.12.05

York Sample ID: 18L0240-03

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 2:45 pm

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS



Sample Information

Client Sample ID: MW-1_2018.12.05

York Sample ID: 18L0240-03

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 2:45 pm

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
67-64-1	Acetone	ND	SCAL-E	ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
71-43-2	Benzene	0.240		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
156-59-2	cis-1,2-Dichloroethylene	0.560		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
110-82-7	Cyclohexane	1.11		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS



Sample Information

Client Sample ID: MW-1_2018.12.05

York Sample ID: 18L0240-03

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 2:45 pm

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS



Sample Information

Client Sample ID: MW-1_2018.12.05

York Sample ID: 18L0240-03

York Project (SDG) No.
18L0240

Client Project ID
140177001

Matrix
Water

Collection Date/Time
December 5, 2018 2:45 pm

Date Received
12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	1.90	CCV-E	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 13:58	RDS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/10/2018 07:30	12/10/2018 13:58	RDS
	Surrogate Recoveries	Result		Acceptance Range							
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %		69-130							
2037-26-5	Surrogate: SURR: Toluene-d8	98.9 %		81-117							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	94.1 %		79-122							

Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	9.30		mg/L	0.278	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/07/2018 12:25	12/10/2018 16:38	BML

Manganese by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	0.487		mg/L	0.00556	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/07/2018 12:25	12/10/2018 16:38	BML

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	865		mg/L	50.0	100	EPA 300.0 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/10/2018 10:46	12/10/2018 17:30	AD

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/06/2018 10:15	12/06/2018 19:14	AD

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	7.34		mg/L	1.00	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/06/2018 10:15	12/06/2018 19:14	AD



Sample Information

Client Sample ID: MW-1_2018.12.05

York Sample ID: 18L0240-03

York Project (SDG) No.
18L0240

Client Project ID
140177001

Matrix
Water

Collection Date/Time
December 5, 2018 2:45 pm

Date Received
12/06/2018

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	620		mg/L	2.0	1	SM 2320B	12/10/2018 11:27	12/10/2018 19:02	PAM
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Salinity

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Salinity	1.50		parts/thous and	0.100	1	SM 2520B	12/10/2018 13:32	12/10/2018 15:39	PAM
Certifications:										

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	6.93		mg/L	1.00	1	SM 5310C	12/07/2018 07:14	12/10/2018 13:06	AD
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										



Sample Information

Client Sample ID: PEW-1_2018.12.05

York Sample ID: 18L0240-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0240

140177001

Water

December 5, 2018 5:05 pm

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
75-35-4	1,1-Dichloroethylene	5.22		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS



Sample Information

Client Sample ID: PEW-1_2018.12.05

York Sample ID: 18L0240-04

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 5:05 pm

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
71-43-2	Benzene	0.780		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
75-00-3	Chloroethane	17.0		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
156-59-2	cis-1,2-Dichloroethylene	2600		ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 14:56	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
110-82-7	Cyclohexane	0.530		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS



Sample Information

Client Sample ID: PEW-1_2018.12.05

York Sample ID: 18L0240-04

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 5:05 pm

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
98-82-8	Isopropylbenzene	0.480		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
108-87-2	Methylcyclohexane	0.490		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
95-47-6	o-Xylene	0.770		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
135-98-8	sec-Butylbenzene	0.710		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
127-18-4	Tetrachloroethylene	148		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
108-88-3	Toluene	0.460		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
156-60-5	trans-1,2-Dichloroethylene	68.2		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
79-01-6	Trichloroethylene	139		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 20:31	RDS



Sample Information

Client Sample ID: PEW-1_2018.12.05

York Sample ID: 18L0240-04

York Project (SDG) No.
18L0240

Client Project ID
140177001

Matrix
Water

Collection Date/Time
December 5, 2018 5:05 pm

Date Received
12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	1470	CCV-E	ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 14:56	RDS
1330-20-7	Xylenes, Total	1.02		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2018 07:30	12/07/2018 20:31	RDS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	100 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	100 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	104 %	79-122								

Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	0.728		mg/L	0.278	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/07/2018 12:25	12/10/2018 16:41	BML

Manganese by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	5.12		mg/L	0.00556	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/07/2018 12:25	12/10/2018 16:41	BML

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	730		mg/L	50.0	100	EPA 300.0 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/10/2018 10:46	12/10/2018 17:55	AD

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/06/2018 10:15	12/06/2018 19:39	AD

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	149		mg/L	100	100	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/10/2018 10:46	12/10/2018 17:55	AD



Sample Information

Client Sample ID: PEW-1_2018.12.05

York Sample ID: 18L0240-04

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 5:05 pm

Date Received

12/06/2018

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	680		mg/L	2.0	1	SM 2320B	12/10/2018 11:27	12/10/2018 19:02	PAM
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Salinity

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Salinity	1.40		parts/thous and	0.100	1	SM 2520B	12/10/2018 13:32	12/10/2018 15:39	PAM
Certifications:										

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	12.9		mg/L	1.00	1	SM 5310C	12/07/2018 07:14	12/10/2018 13:06	AD
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										



Sample Information

Client Sample ID: DUP-1_2018.12.05

York Sample ID: 18L0240-05

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 3:00 pm

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
75-35-4	1,1-Dichloroethylene	4.47		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS



Sample Information

Client Sample ID: DUP-1_2018.12.05

York Sample ID: 18L0240-05

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 3:00 pm

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
71-43-2	Benzene	0.800		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
75-00-3	Chloroethane	18.2		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
156-59-2	cis-1,2-Dichloroethylene	2610		ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 15:25	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
110-82-7	Cyclohexane	0.540		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS



Sample Information

Client Sample ID: DUP-1_2018.12.05

York Sample ID: 18L0240-05

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 3:00 pm

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
98-82-8	Isopropylbenzene	0.490		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
108-87-2	Methylcyclohexane	0.510		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
95-47-6	o-Xylene	0.760		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
135-98-8	sec-Butylbenzene	0.710		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
127-18-4	Tetrachloroethylene	155		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
108-88-3	Toluene	0.480		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
156-60-5	trans-1,2-Dichloroethylene	50.5		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
79-01-6	Trichloroethylene	145		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 21:00	RDS



Sample Information

Client Sample ID: DUP-1_2018.12.05

York Sample ID: 18L0240-05

York Project (SDG) No.
18L0240

Client Project ID
140177001

Matrix
Water

Collection Date/Time
December 5, 2018 3:00 pm

Date Received
12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	1510	CCV-E	ug/L	5.00	12.5	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 15:25	RDS
1330-20-7	Xylenes, Total	1.01		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2018 07:30	12/07/2018 21:00	RDS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	99.7 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	106 %	79-122								

Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	0.685		mg/L	0.278	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/07/2018 12:25	12/10/2018 16:48	BML

Manganese by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	5.02		mg/L	0.00556	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/07/2018 12:25	12/10/2018 16:48	BML

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	729		mg/L	50.0	100	EPA 300.0 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/10/2018 10:46	12/10/2018 18:19	AD

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/06/2018 10:15	12/06/2018 20:03	AD

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	145		mg/L	100	100	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/10/2018 10:46	12/10/2018 18:19	AD



Sample Information

Client Sample ID: DUP-1_2018.12.05

York Sample ID: 18L0240-05

York Project (SDG) No.
18L0240

Client Project ID
140177001

Matrix
Water

Collection Date/Time
December 5, 2018 3:00 pm

Date Received
12/06/2018

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	690		mg/L	2.0	1	SM 2320B	12/10/2018 11:27	12/10/2018 19:02	PAM
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Salinity

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Salinity	1.50		parts/thous and	0.100	1	SM 2520B	12/10/2018 13:32	12/10/2018 15:39	PAM
Certifications:										

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	13.0		mg/L	1.00	1	SM 5310C	12/07/2018 07:14	12/10/2018 13:06	AD
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 18L0240-06

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 12:00 am

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 18L0240-06

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 12:00 am

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 18L0240-06

York Project (SDG) No.

18L0240

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 5, 2018 12:00 am

Date Received

12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
75-65-0	tert-Butyl alcohol (TBA)	0.610	SCAL-E	ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 18L0240-06

York Project (SDG) No.
18L0240

Client Project ID
140177001

Matrix
Water

Collection Date/Time
December 5, 2018 12:00 am

Date Received
12/06/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2018 07:30	12/07/2018 17:09	RDS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2018 07:30	12/07/2018 17:09	RDS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	97.8 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	98.0 %	79-122								



Analytical Batch Summary

Batch ID: BL80347 **Preparation Method:** Analysis Preparation **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
18L0240-01	LMW-1_2018.12.05	12/07/18
18L0240-02	LMW-2_2018.12.05	12/07/18
18L0240-03	MW-1_2018.12.05	12/07/18
18L0240-04	PEW-1_2018.12.05	12/07/18
18L0240-05	DUP-1_2018.12.05	12/07/18
BL80347-BLK1	Blank	12/07/18
BL80347-BS1	LCS	12/07/18

Batch ID: BL80362 **Preparation Method:** EPA 5030B **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
18L0240-02	LMW-2_2018.12.05	12/07/18
18L0240-04	PEW-1_2018.12.05	12/07/18
18L0240-05	DUP-1_2018.12.05	12/07/18
18L0240-06	Trip Blank	12/07/18
BL80362-BLK1	Blank	12/07/18
BL80362-BS1	LCS	12/07/18
BL80362-BSD1	LCS Dup	12/07/18

Batch ID: BL80378 **Preparation Method:** EPA 200.7 **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18L0240-01	LMW-1_2018.12.05	12/07/18
18L0240-02	LMW-2_2018.12.05	12/07/18
18L0240-03	MW-1_2018.12.05	12/07/18
18L0240-04	PEW-1_2018.12.05	12/07/18
18L0240-05	DUP-1_2018.12.05	12/07/18
BL80378-BLK1	Blank	12/07/18
BL80378-BS1	LCS	12/07/18

Batch ID: BL80440 **Preparation Method:** EPA 300 **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
18L0240-01	LMW-1_2018.12.05	12/06/18
18L0240-02	LMW-2_2018.12.05	12/06/18
18L0240-03	MW-1_2018.12.05	12/06/18
18L0240-04	PEW-1_2018.12.05	12/06/18
18L0240-05	DUP-1_2018.12.05	12/06/18
BL80440-BLK1	Blank	12/06/18
BL80440-BS1	LCS	12/06/18
BL80440-DUP1	Duplicate	12/06/18
BL80440-MS1	Matrix Spike	12/06/18



Batch ID: BL80456

Preparation Method: EPA 5030B

Prepared By: RDS

YORK Sample ID	Client Sample ID	Preparation Date
18L0240-01	LMW-1_2018.12.05	12/10/18
18L0240-02RE1	LMW-2_2018.12.05	12/10/18
18L0240-03	MW-1_2018.12.05	12/10/18
18L0240-04RE1	PEW-1_2018.12.05	12/10/18
18L0240-05RE1	DUP-1_2018.12.05	12/10/18
BL80456-BLK1	Blank	12/10/18
BL80456-BS1	LCS	12/10/18
BL80456-BSD1	LCS Dup	12/10/18

Batch ID: BL80457

Preparation Method: Analysis Preparation

Prepared By: PAM

YORK Sample ID	Client Sample ID	Preparation Date
18L0240-01	LMW-1_2018.12.05	12/10/18
18L0240-02	LMW-2_2018.12.05	12/10/18
18L0240-03	MW-1_2018.12.05	12/10/18
18L0240-04	PEW-1_2018.12.05	12/10/18
18L0240-05	DUP-1_2018.12.05	12/10/18
BL80457-SRM1	Reference	12/10/18

Batch ID: BL80472

Preparation Method: Analysis Preparation

Prepared By: AD

YORK Sample ID	Client Sample ID	Preparation Date
18L0240-01	LMW-1_2018.12.05	12/10/18
18L0240-02	LMW-2_2018.12.05	12/10/18
18L0240-03	MW-1_2018.12.05	12/10/18
18L0240-04	PEW-1_2018.12.05	12/10/18
18L0240-05	DUP-1_2018.12.05	12/10/18

Batch ID: BL80495

Preparation Method: EPA 300

Prepared By: AD

YORK Sample ID	Client Sample ID	Preparation Date
18L0240-01	LMW-1_2018.12.05	12/10/18
18L0240-02	LMW-2_2018.12.05	12/10/18
18L0240-03	MW-1_2018.12.05	12/10/18
18L0240-04	PEW-1_2018.12.05	12/10/18
18L0240-05	DUP-1_2018.12.05	12/10/18



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

Batch BL80362 - EPA 5030B

Blank (BL80362-BLK1)

Prepared & Analyzed: 12/07/2018

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





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

Batch BL80362 - EPA 5030B

Blank (BL80362-BLK1)

Prepared & Analyzed: 12/07/2018

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

Surrogate: SURR: 1,2-Dichloroethane-d4

10.0

"

10.0

100

69-130

Surrogate: SURR: Toluene-d8

9.90

"

10.0

99.0

81-117

Surrogate: SURR: p-Bromofluorobenzene

9.83

"

10.0

98.3

79-122

LCS (BL80362-BS1)

Prepared & Analyzed: 12/07/2018

1,1,1,2-Tetrachloroethane	10.7	ug/L	10.0	107	82-126
1,1,1-Trichloroethane	10.6	"	10.0	106	78-136
1,1,2,2-Tetrachloroethane	9.83	"	10.0	98.3	76-129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2	"	10.0	102	54-165
1,1,2-Trichloroethane	9.39	"	10.0	93.9	82-123
1,1-Dichloroethane	9.08	"	10.0	90.8	82-129
1,1-Dichloroethylene	9.10	"	10.0	91.0	68-138
1,2,3-Trichlorobenzene	10.0	"	10.0	100	76-136
1,2,3-Trichloropropane	9.58	"	10.0	95.8	77-128
1,2,4-Trichlorobenzene	10.4	"	10.0	104	76-137
1,2,4-Trimethylbenzene	11.4	"	10.0	114	82-132
1,2-Dibromo-3-chloropropane	8.78	"	10.0	87.8	45-147
1,2-Dibromoethane	9.44	"	10.0	94.4	83-124
1,2-Dichlorobenzene	10.5	"	10.0	105	79-123
1,2-Dichloroethane	9.54	"	10.0	95.4	73-132
1,2-Dichloropropane	10.3	"	10.0	103	78-126
1,3,5-Trimethylbenzene	11.6	"	10.0	116	80-131
1,3-Dichlorobenzene	11.0	"	10.0	110	86-122
1,4-Dichlorobenzene	10.9	"	10.0	109	85-124
1,4-Dioxane	107	"	210	51.1	10-349
2-Butanone	8.32	"	10.0	83.2	49-152
2-Hexanone	8.38	"	10.0	83.8	51-146
4-Methyl-2-pentanone	8.61	"	10.0	86.1	57-145
Acetone	5.76	"	10.0	57.6	14-150
Acrolein	8.45	"	10.0	84.5	10-153
Acrylonitrile	7.42	"	10.0	74.2	51-150
Benzene	10.8	"	10.0	108	85-126
Bromochloromethane	10.1	"	10.0	101	77-128
Bromodichloromethane	10.3	"	10.0	103	79-128



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

Batch BL80362 - EPA 5030B

LCS (BL80362-BS1)

Prepared & Analyzed: 12/07/2018

Bromoform	9.43		ug/L	10.0		94.3	78-133				
Bromomethane	12.7		"	10.0		127	43-168				
Carbon disulfide	9.44		"	10.0		94.4	68-146				
Carbon tetrachloride	10.9		"	10.0		109	77-141				
Chlorobenzene	10.6		"	10.0		106	88-120				
Chloroethane	11.4		"	10.0		114	65-136				
Chloroform	10.3		"	10.0		103	82-128				
Chloromethane	11.4		"	10.0		114	43-155				
cis-1,2-Dichloroethylene	10.5		"	10.0		105	83-129				
cis-1,3-Dichloropropylene	10.2		"	10.0		102	80-131				
Cyclohexane	11.0		"	10.0		110	63-149				
Dibromochloromethane	9.93		"	10.0		99.3	80-130				
Dibromomethane	9.59		"	10.0		95.9	72-134				
Dichlorodifluoromethane	9.03		"	10.0		90.3	44-144				
Ethyl Benzene	11.3		"	10.0		113	80-131				
Hexachlorobutadiene	10.3		"	10.0		103	67-146				
Isopropylbenzene	11.6		"	10.0		116	76-140				
Methyl acetate	7.30		"	10.0		73.0	51-139				
Methyl tert-butyl ether (MTBE)	7.81		"	10.0		78.1	76-135				
Methylcyclohexane	10.9		"	10.0		109	72-143				
Methylene chloride	8.33		"	10.0		83.3	55-137				
n-Butylbenzene	10.5		"	10.0		105	79-132				
n-Propylbenzene	11.9		"	10.0		119	78-133				
o-Xylene	11.0		"	10.0		110	78-130				
p- & m- Xylenes	23.1		"	20.0		116	77-133				
p-Isopropyltoluene	11.6		"	10.0		116	81-136				
sec-Butylbenzene	12.0		"	10.0		120	79-137				
Styrene	10.8		"	10.0		108	67-132				
tert-Butyl alcohol (TBA)	27.6		"	50.0		55.1	25-162				
tert-Butylbenzene	11.7		"	10.0		117	77-138				
Tetrachloroethylene	9.37		"	10.0		93.7	82-131				
Toluene	11.1		"	10.0		111	80-127				
trans-1,2-Dichloroethylene	8.99		"	10.0		89.9	80-132				
trans-1,3-Dichloropropylene	9.44		"	10.0		94.4	78-131				
Trichloroethylene	11.0		"	10.0		110	82-128				
Trichlorofluoromethane	10.7		"	10.0		107	67-139				
Vinyl Chloride	10.6		"	10.0		106	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	9.11		"	10.0		91.1	69-130				
Surrogate: SURR: Toluene-d8	10.2		"	10.0		102	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.6		"	10.0		106	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL80362 - EPA 5030B											
LCS Dup (BL80362-BSD1)						Prepared & Analyzed: 12/07/2018					
1,1,1,2-Tetrachloroethane	10.6		ug/L	10.0		106	82-126		1.04	30	
1,1,1-Trichloroethane	9.94		"	10.0		99.4	78-136		5.95	30	
1,1,2,2-Tetrachloroethane	10.8		"	10.0		108	76-129		9.13	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.71		"	10.0		97.1	54-165		4.73	30	
1,1,2-Trichloroethane	9.88		"	10.0		98.8	82-123		5.09	30	
1,1-Dichloroethane	10.1		"	10.0		101	82-129		10.8	30	
1,1-Dichloroethylene	9.71		"	10.0		97.1	68-138		6.49	30	
1,2,3-Trichlorobenzene	10.0		"	10.0		100	76-136		0.0997	30	
1,2,3-Trichloropropane	10.5		"	10.0		105	77-128		9.35	30	
1,2,4-Trichlorobenzene	10.1		"	10.0		101	76-137		2.84	30	
1,2,4-Trimethylbenzene	10.6		"	10.0		106	82-132		6.91	30	
1,2-Dibromo-3-chloropropane	10.0		"	10.0		100	45-147		13.5	30	
1,2-Dibromoethane	10.2		"	10.0		102	83-124		7.25	30	
1,2-Dichlorobenzene	10.2		"	10.0		102	79-123		3.01	30	
1,2-Dichloroethane	10.0		"	10.0		100	73-132		5.21	30	
1,2-Dichloropropane	10.0		"	10.0		100	78-126		3.15	30	
1,3,5-Trimethylbenzene	10.6		"	10.0		106	80-131		8.37	30	
1,3-Dichlorobenzene	10.4		"	10.0		104	86-122		5.04	30	
1,4-Dichlorobenzene	10.4		"	10.0		104	85-124		4.80	30	
1,4-Dioxane	249		"	210		119	10-349		79.7	30	Non-dir.
2-Butanone	9.66		"	10.0		96.6	49-152		14.9	30	
2-Hexanone	10.4		"	10.0		104	51-146		21.3	30	
4-Methyl-2-pentanone	10.3		"	10.0		103	57-145		18.2	30	
Acetone	8.30		"	10.0		83.0	14-150		36.1	30	Non-dir.
Acrolein	9.50		"	10.0		95.0	10-153		11.7	30	
Acrylonitrile	10.0		"	10.0		100	51-150		29.9	30	
Benzene	10.5		"	10.0		105	85-126		3.38	30	
Bromochloromethane	10.2		"	10.0		102	77-128		1.28	30	
Bromodichloromethane	10.3		"	10.0		103	79-128		0.0972	30	
Bromoform	10.4		"	10.0		104	78-133		10.1	30	
Bromomethane	11.3		"	10.0		113	43-168		11.4	30	
Carbon disulfide	10.0		"	10.0		100	68-146		6.06	30	
Carbon tetrachloride	10.3		"	10.0		103	77-141		5.68	30	
Chlorobenzene	10.2		"	10.0		102	88-120		3.85	30	
Chloroethane	10.2		"	10.0		102	65-136		10.3	30	
Chloroform	10.1		"	10.0		101	82-128		1.67	30	
Chloromethane	10.0		"	10.0		100	43-155		12.8	30	
cis-1,2-Dichloroethylene	10.2		"	10.0		102	83-129		2.90	30	
cis-1,3-Dichloropropylene	10.2		"	10.0		102	80-131		0.294	30	
Cyclohexane	10.3		"	10.0		103	63-149		7.04	30	
Dibromochloromethane	10.4		"	10.0		104	80-130		4.43	30	
Dibromomethane	9.99		"	10.0		99.9	72-134		4.09	30	
Dichlorodifluoromethane	8.25		"	10.0		82.5	44-144		9.03	30	
Ethyl Benzene	10.6		"	10.0		106	80-131		6.76	30	
Hexachlorobutadiene	9.99		"	10.0		99.9	67-146		3.44	30	
Isopropylbenzene	10.4		"	10.0		104	76-140		10.4	30	
Methyl acetate	10.2		"	10.0		102	51-139		33.0	30	Non-dir.
Methyl tert-butyl ether (MTBE)	10.2		"	10.0		102	76-135		26.9	30	
Methylcyclohexane	10.0		"	10.0		100	72-143		7.84	30	
Methylene chloride	9.81		"	10.0		98.1	55-137		16.3	30	
n-Butylbenzene	9.91		"	10.0		99.1	79-132		5.78	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

Batch BL80362 - EPA 5030B

LCS Dup (BL80362-BSD1)

Prepared & Analyzed: 12/07/2018

n-Propylbenzene	10.8		ug/L	10.0		108	78-133		10.1	30	
o-Xylene	10.5		"	10.0		105	78-130		4.55	30	
p- & m- Xylenes	21.7		"	20.0		109	77-133		6.11	30	
p-Isopropyltoluene	10.7		"	10.0		107	81-136		7.96	30	
sec-Butylbenzene	11.1		"	10.0		111	79-137		8.39	30	
Styrene	10.5		"	10.0		105	67-132		2.82	30	
tert-Butyl alcohol (TBA)	57.6		"	50.0		115	25-162		70.7	30	Non-dir.
tert-Butylbenzene	10.7		"	10.0		107	77-138		8.82	30	
Tetrachloroethylene	8.67		"	10.0		86.7	82-131		7.76	30	
Toluene	10.4		"	10.0		104	80-127		6.59	30	
trans-1,2-Dichloroethylene	9.82		"	10.0		98.2	80-132		8.83	30	
trans-1,3-Dichloropropylene	9.88		"	10.0		98.8	78-131		4.55	30	
Trichloroethylene	10.1		"	10.0		101	82-128		8.52	30	
Trichlorofluoromethane	10.3		"	10.0		103	67-139		4.09	30	
Vinyl Chloride	9.60		"	10.0		96.0	58-145		9.52	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	9.74		"	10.0		97.4	69-130				
Surrogate: SURR: Toluene-d8	9.93		"	10.0		99.3	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.3		"	10.0		103	79-122				

Batch BL80456 - EPA 5030B

Blank (BL80456-BLK1)

Prepared & Analyzed: 12/10/2018

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



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BL80456 - EPA 5030B

Blank (BL80456-BLK1)

Prepared & Analyzed: 12/10/2018

Bromoform	ND	0.500	ug/L								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	2.50	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURRE: 1,2-Dichloroethane-d4	10.2		"	10.0		102	69-130				
Surrogate: SURRE: Toluene-d8	9.83		"	10.0		98.3	81-117				
Surrogate: SURRE: p-Bromofluorobenzene	9.95		"	10.0		99.5	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL80456 - EPA 5030B											
LCS (BL80456-BS1)						Prepared & Analyzed: 12/10/2018					
1,1,1,2-Tetrachloroethane	10.9		ug/L	10.0		109	82-126				
1,1,1-Trichloroethane	10.7		"	10.0		107	78-136				
1,1,2,2-Tetrachloroethane	10.3		"	10.0		103	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5		"	10.0		105	54-165				
1,1,2-Trichloroethane	9.97		"	10.0		99.7	82-123				
1,1-Dichloroethane	10.8		"	10.0		108	82-129				
1,1-Dichloroethylene	10.7		"	10.0		107	68-138				
1,2,3-Trichlorobenzene	10.2		"	10.0		102	76-136				
1,2,3-Trichloropropane	9.98		"	10.0		99.8	77-128				
1,2,4-Trichlorobenzene	9.92		"	10.0		99.2	76-137				
1,2,4-Trimethylbenzene	10.8		"	10.0		108	82-132				
1,2-Dibromo-3-chloropropane	9.17		"	10.0		91.7	45-147				
1,2-Dibromoethane	10.0		"	10.0		100	83-124				
1,2-Dichlorobenzene	10.3		"	10.0		103	79-123				
1,2-Dichloroethane	10.3		"	10.0		103	73-132				
1,2-Dichloropropane	10.2		"	10.0		102	78-126				
1,3,5-Trimethylbenzene	10.8		"	10.0		108	80-131				
1,3-Dichlorobenzene	10.7		"	10.0		107	86-122				
1,4-Dichlorobenzene	10.8		"	10.0		108	85-124				
1,4-Dioxane	126		"	210		60.0	10-349				
2-Butanone	9.91		"	10.0		99.1	49-152				
2-Hexanone	10.0		"	10.0		100	51-146				
4-Methyl-2-pentanone	9.66		"	10.0		96.6	57-145				
Acetone	8.36		"	10.0		83.6	14-150				
Acrolein	9.12		"	10.0		91.2	10-153				
Acrylonitrile	9.74		"	10.0		97.4	51-150				
Benzene	11.1		"	10.0		111	85-126				
Bromochloromethane	10.4		"	10.0		104	77-128				
Bromodichloromethane	10.4		"	10.0		104	79-128				
Bromoform	10.6		"	10.0		106	78-133				
Bromomethane	13.6		"	10.0		136	43-168				
Carbon disulfide	11.4		"	10.0		114	68-146				
Carbon tetrachloride	11.1		"	10.0		111	77-141				
Chlorobenzene	10.6		"	10.0		106	88-120				
Chloroethane	12.0		"	10.0		120	65-136				
Chloroform	10.6		"	10.0		106	82-128				
Chloromethane	12.6		"	10.0		126	43-155				
cis-1,2-Dichloroethylene	10.8		"	10.0		108	83-129				
cis-1,3-Dichloropropylene	10.4		"	10.0		104	80-131				
Cyclohexane	11.2		"	10.0		112	63-149				
Dibromochloromethane	10.5		"	10.0		105	80-130				
Dibromomethane	10.2		"	10.0		102	72-134				
Dichlorodifluoromethane	14.2		"	10.0		142	44-144				
Ethyl Benzene	10.9		"	10.0		109	80-131				
Hexachlorobutadiene	9.51		"	10.0		95.1	67-146				
Isopropylbenzene	10.5		"	10.0		105	76-140				
Methyl acetate	9.95		"	10.0		99.5	51-139				
Methyl tert-butyl ether (MTBE)	10.4		"	10.0		104	76-135				
Methylcyclohexane	10.6		"	10.0		106	72-143				
Methylene chloride	10.4		"	10.0		104	55-137				
n-Butylbenzene	10.3		"	10.0		103	79-132				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL80456 - EPA 5030B											
LCS (BL80456-BS1)						Prepared & Analyzed: 12/10/2018					
n-Propylbenzene	10.8		ug/L	10.0		108	78-133				
o-Xylene	10.8		"	10.0		108	78-130				
p- & m- Xylenes	22.4		"	20.0		112	77-133				
p-Isopropyltoluene	11.1		"	10.0		111	81-136				
sec-Butylbenzene	11.3		"	10.0		113	79-137				
Styrene	10.7		"	10.0		107	67-132				
tert-Butyl alcohol (TBA)	43.0		"	50.0		85.9	25-162				
tert-Butylbenzene	10.9		"	10.0		109	77-138				
Tetrachloroethylene	9.19		"	10.0		91.9	82-131				
Toluene	10.8		"	10.0		108	80-127				
trans-1,2-Dichloroethylene	10.6		"	10.0		106	80-132				
trans-1,3-Dichloropropylene	9.93		"	10.0		99.3	78-131				
Trichloroethylene	10.6		"	10.0		106	82-128				
Trichlorofluoromethane	12.3		"	10.0		123	67-139				
Vinyl Chloride	12.0		"	10.0		120	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	9.81		"	10.0		98.1	69-130				
Surrogate: SURR: Toluene-d8	9.88		"	10.0		98.8	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.0		"	10.0		100	79-122				
LCS Dup (BL80456-BS1)						Prepared & Analyzed: 12/10/2018					
1,1,1,2-Tetrachloroethane	10.7		ug/L	10.0		107	82-126		1.30	30	
1,1,1-Trichloroethane	9.05		"	10.0		90.5	78-136		16.9	30	
1,1,2,2-Tetrachloroethane	10.4		"	10.0		104	76-129		1.45	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.87		"	10.0		98.7	54-165		6.57	30	
1,1,2-Trichloroethane	10.1		"	10.0		101	82-123		1.39	30	
1,1-Dichloroethane	8.79		"	10.0		87.9	82-129		20.4	30	
1,1-Dichloroethylene	8.80		"	10.0		88.0	68-138		19.7	30	
1,2,3-Trichlorobenzene	9.77		"	10.0		97.7	76-136		4.50	30	
1,2,3-Trichloropropane	10.2		"	10.0		102	77-128		2.38	30	
1,2,4-Trichlorobenzene	9.91		"	10.0		99.1	76-137		0.101	30	
1,2,4-Trimethylbenzene	10.5		"	10.0		105	82-132		2.26	30	
1,2-Dibromo-3-chloropropane	9.58		"	10.0		95.8	45-147		4.37	30	
1,2-Dibromoethane	10.3		"	10.0		103	83-124		2.26	30	
1,2-Dichlorobenzene	10.2		"	10.0		102	79-123		0.293	30	
1,2-Dichloroethane	10.4		"	10.0		104	73-132		1.45	30	
1,2-Dichloropropane	10.1		"	10.0		101	78-126		1.09	30	
1,3,5-Trimethylbenzene	10.5		"	10.0		105	80-131		2.64	30	
1,3-Dichlorobenzene	10.5		"	10.0		105	86-122		1.98	30	
1,4-Dichlorobenzene	10.3		"	10.0		103	85-124		4.36	30	
1,4-Dioxane	154		"	210		73.5	10-349		20.2	30	
2-Butanone	7.95		"	10.0		79.5	49-152		21.9	30	
2-Hexanone	10.3		"	10.0		103	51-146		2.66	30	
4-Methyl-2-pentanone	9.96		"	10.0		99.6	57-145		3.06	30	
Acetone	6.91		"	10.0		69.1	14-150		19.0	30	
Acrolein	8.67		"	10.0		86.7	10-153		5.06	30	
Acrylonitrile	8.27		"	10.0		82.7	51-150		16.3	30	
Benzene	10.9		"	10.0		109	85-126		2.18	30	
Bromochloromethane	8.50		"	10.0		85.0	77-128		20.4	30	
Bromodichloromethane	10.3		"	10.0		103	79-128		0.482	30	
Bromoform	10.7		"	10.0		107	78-133		1.03	30	
Bromomethane	12.9		"	10.0		129	43-168		5.73	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

Batch BL80456 - EPA 5030B

LCS Dup (BL80456-BSD1)

Prepared & Analyzed: 12/10/2018

Carbon disulfide	9.43		ug/L	10.0		94.3	68-146		18.8	30	
Carbon tetrachloride	9.84		"	10.0		98.4	77-141		11.9	30	
Chlorobenzene	10.3		"	10.0		103	88-120		2.67	30	
Chloroethane	10.6		"	10.0		106	65-136		12.7	30	
Chloroform	9.00		"	10.0		90.0	82-128		16.5	30	
Chloromethane	12.6		"	10.0		126	43-155		0.556	30	
cis-1,2-Dichloroethylene	8.81		"	10.0		88.1	83-129		20.1	30	
cis-1,3-Dichloropropylene	10.3		"	10.0		103	80-131		1.06	30	
Cyclohexane	8.85		"	10.0		88.5	63-149		23.0	30	
Dibromochloromethane	10.6		"	10.0		106	80-130		1.24	30	
Dibromomethane	10.2		"	10.0		102	72-134		0.490	30	
Dichlorodifluoromethane	13.8		"	10.0		138	44-144		2.86	30	
Ethyl Benzene	10.6		"	10.0		106	80-131		2.98	30	
Hexachlorobutadiene	9.37		"	10.0		93.7	67-146		1.48	30	
Isopropylbenzene	10.1		"	10.0		101	76-140		3.30	30	
Methyl acetate	8.36		"	10.0		83.6	51-139		17.4	30	
Methyl tert-butyl ether (MTBE)	9.00		"	10.0		90.0	76-135		14.5	30	
Methylcyclohexane	10.2		"	10.0		102	72-143		3.94	30	
Methylene chloride	8.38		"	10.0		83.8	55-137		21.2	30	
n-Butylbenzene	9.70		"	10.0		97.0	79-132		5.61	30	
n-Propylbenzene	10.4		"	10.0		104	78-133		3.48	30	
o-Xylene	10.5		"	10.0		105	78-130		2.72	30	
p- & m- Xylenes	21.8		"	20.0		109	77-133		2.94	30	
p-Isopropyltoluene	10.7		"	10.0		107	81-136		2.94	30	
sec-Butylbenzene	10.9		"	10.0		109	79-137		3.52	30	
Styrene	10.5		"	10.0		105	67-132		1.79	30	
tert-Butyl alcohol (TBA)	37.4		"	50.0		74.8	25-162		13.9	30	
tert-Butylbenzene	10.6		"	10.0		106	77-138		3.07	30	
Tetrachloroethylene	8.92		"	10.0		89.2	82-131		2.98	30	
Toluene	10.5		"	10.0		105	80-127		3.28	30	
trans-1,2-Dichloroethylene	8.62		"	10.0		86.2	80-132		20.6	30	
trans-1,3-Dichloropropylene	10.0		"	10.0		100	78-131		0.802	30	
Trichloroethylene	10.2		"	10.0		102	82-128		3.84	30	
Trichlorofluoromethane	10.7		"	10.0		107	67-139		14.0	30	
Vinyl Chloride	11.5		"	10.0		115	58-145		3.91	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	9.85		"	10.0		98.5	69-130				
Surrogate: SURR: Toluene-d8	9.81		"	10.0		98.1	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.0		"	10.0		100	79-122				





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

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

Batch BL80378 - EPA 200.7

Blank (BL80378-BLK1)

Prepared: 12/07/2018 Analyzed: 12/10/2018

Iron	ND	0.278	mg/L
Manganese	ND	0.00556	"

LCS (BL80378-BS1)

Prepared: 12/07/2018 Analyzed: 12/10/2018

Iron	1.01	ug/mL	1.00	101	85-115
Manganese	0.522	"	0.500	104	85-115



Anions by Ion Chromatography - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL80440 - EPA 300											
Blank (BL80440-BLK1)						Prepared & Analyzed: 12/06/2018					
Nitrate as N	ND	0.0500	mg/L								
Sulfate	ND	1.00	"								
LCS (BL80440-BS1)						Prepared & Analyzed: 12/06/2018					
Nitrate as N	10.0	0.0500	mg/L	10.0		100	90-110				
Sulfate	10.1	1.00	"	10.0		101	85-115				
Duplicate (BL80440-DUP1)						*Source sample: 18L0240-01 (LMW-1_2018.12.05) Prepared & Analyzed: 12/06/2018					
Nitrate as N	ND	0.0500	mg/L		ND					15	
Sulfate	83.2	1.00	"		101				19.6	15	Non-dir.
Matrix Spike (BL80440-MS1)						*Source sample: 18L0240-01 (LMW-1_2018.12.05) Prepared & Analyzed: 12/06/2018					
Nitrate as N	9.14	0.0500	mg/L	10.0	ND	91.4	90-110				
Sulfate	76.6	1.00	"	10.0	101	NR	85-115	Low Bias			



Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BL80347 - Analysis Preparation

Blank (BL80347-BLK1)

Prepared: 12/07/2018 Analyzed: 12/10/2018

Total Organic Carbon (TOC)	ND	1.00	mg/L

LCS (BL80347-BS1)

Prepared: 12/07/2018 Analyzed: 12/10/2018

Total Organic Carbon (TOC)	64.4	1.00	mg/L	57.8	111	79.5-125.1

Batch BL80457 - Analysis Preparation

Reference (BL80457-SRM1)

Prepared & Analyzed: 12/10/2018

Alkalinity, total	60	2.0	mg/L	59.8	100	90-110



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18L0240-01	LMW-1_2018.12.05	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18L0240-02	LMW-2_2018.12.05	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18L0240-03	MW-1_2018.12.05	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18L0240-04	PEW-1_2018.12.05	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18L0240-05	DUP-1_2018.12.05	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18L0240-06	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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.

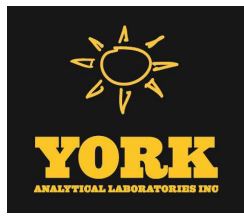
2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

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.



Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive

New Haven CT, 06511

Attention: John FitzPatrick

Report Date: 12/11/2018

Client Project ID: 140177001

York Project (SDG) No.: 18L0360



CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037

New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

Report Date: 12/11/2018
Client Project ID: 140177001
York Project (SDG) No.: 18L0360

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: John FitzPatrick

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 07, 2018 and listed below. The project was identified as your project: **140177001**.

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>
18L0360-01	MW-33_2018.12.07	Water	12/07/2018	12/07/2018
18L0360-02	MW-46_2018.12.07	Water	12/07/2018	12/07/2018
18L0360-03	Trip Blank	Water	12/07/2018	12/07/2018

General Notes for York Project (SDG) No.: 18L0360

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

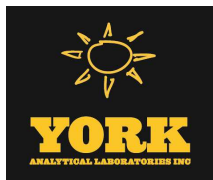
Approved By:



Benjamin Gulizia
Laboratory Director

Date: 12/11/2018





Sample Information

Client Sample ID: MW-33_2018.12.07

York Sample ID: 18L0360-01

York Project (SDG) No.

18L0360

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 7, 2018 11:10 am

Date Received

12/07/2018

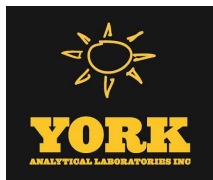
Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS



Sample Information

Client Sample ID: MW-33_2018.12.07

York Sample ID: 18L0360-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0360

140177001

Water

December 7, 2018 11:10 am

12/07/2018

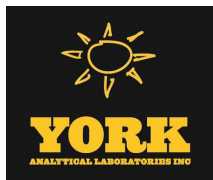
Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
156-59-2	cis-1,2-Dichloroethylene	1.01		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS



Sample Information

Client Sample ID: MW-33_2018.12.07

York Sample ID: 18L0360-01

York Project (SDG) No.

18L0360

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 7, 2018 11:10 am

Date Received

12/07/2018

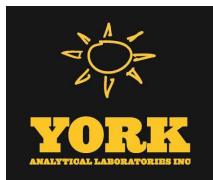
Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
75-65-0	tert-Butyl alcohol (TBA)	3.56	SCAL-E	ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
156-60-5	trans-1,2-Dichloroethylene	0.220		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS



Sample Information

Client Sample ID: MW-33_2018.12.07

York Sample ID: 18L0360-01

York Project (SDG) No.
18L0360

Client Project ID
140177001

Matrix
Water

Collection Date/Time
December 7, 2018 11:10 am

Date Received
12/07/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 17:49	RDS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/10/2018 07:30	12/10/2018 17:49	RDS
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	107 %		69-130							
2037-26-5	Surrogate: SURR: Toluene-d8	97.5 %		81-117							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	92.3 %		79-122							

Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	14.6		mg/L	0.278	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/10/2018 12:54	12/10/2018 22:08	BML

Manganese by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	2.48		mg/L	0.00556	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/10/2018 12:54	12/10/2018 22:08	BML

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	9040		mg/L	250	500	EPA 300.0 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/10/2018 10:46	12/11/2018 10:06	AD

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND	HT-01	mg/L	25.0	500	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/10/2018 10:46	12/11/2018 10:06	AD

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	334		mg/L	10.0	10	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/10/2018 10:46	12/11/2018 00:08	AD



Sample Information

Client Sample ID: MW-33_2018.12.07

York Sample ID: 18L0360-01

York Project (SDG) No.
18L0360

Client Project ID
140177001

Matrix
Water

Collection Date/Time
December 7, 2018 11:10 am

Date Received
12/07/2018

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	720		mg/L	2.0	1	SM 2320B	12/10/2018 11:27	12/10/2018 19:02	PAM
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Salinity

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Salinity	12.9		parts/thous and	0.100	1	SM 2520B	12/10/2018 13:32	12/10/2018 15:39	PAM
Certifications:										

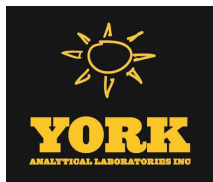
Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	10.0		mg/L	1.00	1	SM 5310C	12/11/2018 12:05	12/11/2018 15:26	AD
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										



Sample Information

Client Sample ID: MW-46_2018.12.07

York Sample ID: 18L0360-02

York Project (SDG) No.

18L0360

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 7, 2018 1:15 pm

Date Received

12/07/2018

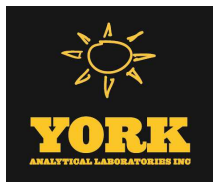
Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS



Sample Information

Client Sample ID: MW-46_2018.12.07

York Sample ID: 18L0360-02

York Project (SDG) No.

18L0360

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 7, 2018 1:15 pm

Date Received

12/07/2018

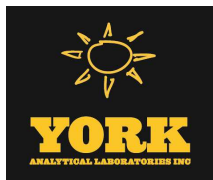
Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
156-59-2	cis-1,2-Dichloroethylene	1.32		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS



Sample Information

Client Sample ID: MW-46_2018.12.07

York Sample ID: 18L0360-02

York Project (SDG) No.

18L0360

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 7, 2018 1:15 pm

Date Received

12/07/2018

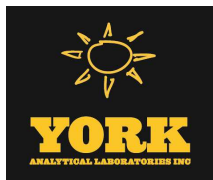
Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
75-65-0	tert-Butyl alcohol (TBA)	2.05	SCAL- E	ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS



Sample Information

Client Sample ID: MW-46_2018.12.07

York Sample ID: 18L0360-02

York Project (SDG) No.
18L0360

Client Project ID
140177001

Matrix
Water

Collection Date/Time
December 7, 2018 1:15 pm

Date Received
12/07/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	0.590	CCV-E	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:18	RDS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/10/2018 07:30	12/10/2018 18:18	RDS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	104 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	97.8 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	94.4 %	79-122								

Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	4.47		mg/L	0.278	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/10/2018 12:54	12/10/2018 22:11	BML

Manganese by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	0.804		mg/L	0.00556	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/10/2018 12:54	12/10/2018 22:11	BML

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	1650		mg/L	250	500	EPA 300.0 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/10/2018 10:46	12/11/2018 10:31	AD

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND	HT-01	mg/L	25.0	500	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/10/2018 10:46	12/11/2018 10:31	AD

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	333		mg/L	10.0	10	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/10/2018 10:46	12/11/2018 00:58	AD



Sample Information

Client Sample ID: MW-46_2018.12.07

York Sample ID: 18L0360-02

York Project (SDG) No.
18L0360

Client Project ID
140177001

Matrix
Water

Collection Date/Time
December 7, 2018 1:15 pm

Date Received
12/07/2018

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	360		mg/L	2.0	1	SM 2320B	12/10/2018 11:27	12/10/2018 19:02	PAM
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										

Salinity

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Salinity	2.60		parts/thous and	0.100	1	SM 2520B	12/10/2018 13:32	12/10/2018 15:39	PAM
Certifications:										

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	9.60		mg/L	1.00	1	SM 5310C	12/11/2018 12:05	12/11/2018 15:26	AD
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP										



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 18L0360-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18L0360

140177001

Water

December 7, 2018 12:00 am

12/07/2018

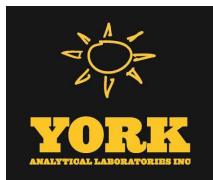
Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
95-50-1	1,2-Dichlorobenzene	0.400		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 18L0360-03

York Project (SDG) No.

18L0360

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 7, 2018 12:00 am

Date Received

12/07/2018

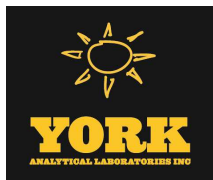
Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
67-64-1	Acetone	1.02	SCAL-E	ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
107-02-8	Acrolein	ND		ug/L	0.200	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
67-66-3	Chloroform	1.03		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
74-87-3	Chloromethane	0.310	CCV-E	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 18L0360-03

York Project (SDG) No.

18L0360

Client Project ID

140177001

Matrix

Water

Collection Date/Time

December 7, 2018 12:00 am

Date Received

12/07/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
75-09-2	Methylene chloride	1.84		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	2.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 18L0360-03

York Project (SDG) No.
18L0360

Client Project ID
140177001

Matrix
Water

Collection Date/Time
December 7, 2018 12:00 am

Date Received
12/07/2018

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/10/2018 07:30	12/10/2018 18:47	RDS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/10/2018 07:30	12/10/2018 18:47	RDS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	97.9 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	96.1 %	79-122								



Analytical Batch Summary

Batch ID: BL80456 **Preparation Method:** EPA 5030B **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
18L0360-01	MW-33_2018.12.07	12/10/18
18L0360-02	MW-46_2018.12.07	12/10/18
18L0360-03	Trip Blank	12/10/18
BL80456-BLK1	Blank	12/10/18
BL80456-BS1	LCS	12/10/18
BL80456-BSD1	LCS Dup	12/10/18

Batch ID: BL80457 **Preparation Method:** Analysis Preparation **Prepared By:** PAM

YORK Sample ID	Client Sample ID	Preparation Date
18L0360-01	MW-33_2018.12.07	12/10/18
18L0360-02	MW-46_2018.12.07	12/10/18
BL80457-SRM1	Reference	12/10/18

Batch ID: BL80469 **Preparation Method:** EPA 200.7 **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18L0360-01	MW-33_2018.12.07	12/10/18
18L0360-02	MW-46_2018.12.07	12/10/18
BL80469-BLK1	Blank	12/10/18
BL80469-BS1	LCS	12/10/18

Batch ID: BL80472 **Preparation Method:** Analysis Preparation **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
18L0360-01	MW-33_2018.12.07	12/10/18
18L0360-02	MW-46_2018.12.07	12/10/18

Batch ID: BL80495 **Preparation Method:** EPA 300 **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
18L0360-01	MW-33_2018.12.07	12/10/18
18L0360-02	MW-46_2018.12.07	12/10/18
BL80495-BLK1	Blank	12/10/18
BL80495-BS1	LCS	12/10/18

Batch ID: BL80537 **Preparation Method:** Analysis Preparation **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
18L0360-01	MW-33_2018.12.07	12/11/18
18L0360-02	MW-46_2018.12.07	12/11/18
BL80537-BLK1	Blank	12/11/18



BL80537-BS1	LCS	12/11/18
BL80537-DUP1	Duplicate	12/11/18
BL80537-MS1	Matrix Spike	12/11/18



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
Batch BL80456 - EPA 5030B											
Blank (BL80456-BLK1)										Prepared & Analyzed: 12/10/2018	
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	2.00	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								



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

Batch BL80456 - EPA 5030B

Blank (BL80456-BLK1)

Prepared & Analyzed: 12/10/2018

n-Butylbenzene	ND	0.500	ug/L								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	2.50	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	10.2		"	10.0		102	69-130				
Surrogate: SURR: Toluene-d8	9.83		"	10.0		98.3	81-117				
Surrogate: SURR: p-Bromofluorobenzene	9.95		"	10.0		99.5	79-122				

LCS (BL80456-BS1)

Prepared & Analyzed: 12/10/2018

1,1,1,2-Tetrachloroethane	10.9		ug/L	10.0		109	82-126				
1,1,1-Trichloroethane	10.7		"	10.0		107	78-136				
1,1,2,2-Tetrachloroethane	10.3		"	10.0		103	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5		"	10.0		105	54-165				
1,1,2-Trichloroethane	9.97		"	10.0		99.7	82-123				
1,1-Dichloroethane	10.8		"	10.0		108	82-129				
1,1-Dichloroethylene	10.7		"	10.0		107	68-138				
1,2,3-Trichlorobenzene	10.2		"	10.0		102	76-136				
1,2,3-Trichloropropane	9.98		"	10.0		99.8	77-128				
1,2,4-Trichlorobenzene	9.92		"	10.0		99.2	76-137				
1,2,4-Trimethylbenzene	10.8		"	10.0		108	82-132				
1,2-Dibromo-3-chloropropane	9.17		"	10.0		91.7	45-147				
1,2-Dibromoethane	10.0		"	10.0		100	83-124				
1,2-Dichlorobenzene	10.3		"	10.0		103	79-123				
1,2-Dichloroethane	10.3		"	10.0		103	73-132				
1,2-Dichloropropane	10.2		"	10.0		102	78-126				
1,3,5-Trimethylbenzene	10.8		"	10.0		108	80-131				
1,3-Dichlorobenzene	10.7		"	10.0		107	86-122				
1,4-Dichlorobenzene	10.8		"	10.0		108	85-124				
1,4-Dioxane	126		"	210		60.0	10-349				
2-Butanone	9.91		"	10.0		99.1	49-152				
2-Hexanone	10.0		"	10.0		100	51-146				
4-Methyl-2-pentanone	9.66		"	10.0		96.6	57-145				
Acetone	8.36		"	10.0		83.6	14-150				
Acrolein	9.12		"	10.0		91.2	10-153				
Acrylonitrile	9.74		"	10.0		97.4	51-150				
Benzene	11.1		"	10.0		111	85-126				
Bromochloromethane	10.4		"	10.0		104	77-128				
Bromodichloromethane	10.4		"	10.0		104	79-128				



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

Batch BL80456 - EPA 5030B

LCS (BL80456-BS1)

Prepared & Analyzed: 12/10/2018

Bromoform	10.6		ug/L	10.0		106	78-133				
Bromomethane	13.6		"	10.0		136	43-168				
Carbon disulfide	11.4		"	10.0		114	68-146				
Carbon tetrachloride	11.1		"	10.0		111	77-141				
Chlorobenzene	10.6		"	10.0		106	88-120				
Chloroethane	12.0		"	10.0		120	65-136				
Chloroform	10.6		"	10.0		106	82-128				
Chloromethane	12.6		"	10.0		126	43-155				
cis-1,2-Dichloroethylene	10.8		"	10.0		108	83-129				
cis-1,3-Dichloropropylene	10.4		"	10.0		104	80-131				
Cyclohexane	11.2		"	10.0		112	63-149				
Dibromochloromethane	10.5		"	10.0		105	80-130				
Dibromomethane	10.2		"	10.0		102	72-134				
Dichlorodifluoromethane	14.2		"	10.0		142	44-144				
Ethyl Benzene	10.9		"	10.0		109	80-131				
Hexachlorobutadiene	9.51		"	10.0		95.1	67-146				
Isopropylbenzene	10.5		"	10.0		105	76-140				
Methyl acetate	9.95		"	10.0		99.5	51-139				
Methyl tert-butyl ether (MTBE)	10.4		"	10.0		104	76-135				
Methylcyclohexane	10.6		"	10.0		106	72-143				
Methylene chloride	10.4		"	10.0		104	55-137				
n-Butylbenzene	10.3		"	10.0		103	79-132				
n-Propylbenzene	10.8		"	10.0		108	78-133				
o-Xylene	10.8		"	10.0		108	78-130				
p- & m- Xylenes	22.4		"	20.0		112	77-133				
p-Isopropyltoluene	11.1		"	10.0		111	81-136				
sec-Butylbenzene	11.3		"	10.0		113	79-137				
Styrene	10.7		"	10.0		107	67-132				
tert-Butyl alcohol (TBA)	43.0		"	50.0		85.9	25-162				
tert-Butylbenzene	10.9		"	10.0		109	77-138				
Tetrachloroethylene	9.19		"	10.0		91.9	82-131				
Toluene	10.8		"	10.0		108	80-127				
trans-1,2-Dichloroethylene	10.6		"	10.0		106	80-132				
trans-1,3-Dichloropropylene	9.93		"	10.0		99.3	78-131				
Trichloroethylene	10.6		"	10.0		106	82-128				
Trichlorofluoromethane	12.3		"	10.0		123	67-139				
Vinyl Chloride	12.0		"	10.0		120	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	9.81		"	10.0		98.1	69-130				
Surrogate: SURR: Toluene-d8	9.88		"	10.0		98.8	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.0		"	10.0		100	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL80456 - EPA 5030B											
LCS Dup (BL80456-BSD1)						Prepared & Analyzed: 12/10/2018					
1,1,1,2-Tetrachloroethane	10.7		ug/L	10.0		107	82-126		1.30	30	
1,1,1-Trichloroethane	9.05		"	10.0		90.5	78-136		16.9	30	
1,1,2,2-Tetrachloroethane	10.4		"	10.0		104	76-129		1.45	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.87		"	10.0		98.7	54-165		6.57	30	
1,1,2-Trichloroethane	10.1		"	10.0		101	82-123		1.39	30	
1,1-Dichloroethane	8.79		"	10.0		87.9	82-129		20.4	30	
1,1-Dichloroethylene	8.80		"	10.0		88.0	68-138		19.7	30	
1,2,3-Trichlorobenzene	9.77		"	10.0		97.7	76-136		4.50	30	
1,2,3-Trichloropropane	10.2		"	10.0		102	77-128		2.38	30	
1,2,4-Trichlorobenzene	9.91		"	10.0		99.1	76-137		0.101	30	
1,2,4-Trimethylbenzene	10.5		"	10.0		105	82-132		2.26	30	
1,2-Dibromo-3-chloropropane	9.58		"	10.0		95.8	45-147		4.37	30	
1,2-Dibromoethane	10.3		"	10.0		103	83-124		2.26	30	
1,2-Dichlorobenzene	10.2		"	10.0		102	79-123		0.293	30	
1,2-Dichloroethane	10.4		"	10.0		104	73-132		1.45	30	
1,2-Dichloropropane	10.1		"	10.0		101	78-126		1.09	30	
1,3,5-Trimethylbenzene	10.5		"	10.0		105	80-131		2.64	30	
1,3-Dichlorobenzene	10.5		"	10.0		105	86-122		1.98	30	
1,4-Dichlorobenzene	10.3		"	10.0		103	85-124		4.36	30	
1,4-Dioxane	154		"	210		73.5	10-349		20.2	30	
2-Butanone	7.95		"	10.0		79.5	49-152		21.9	30	
2-Hexanone	10.3		"	10.0		103	51-146		2.66	30	
4-Methyl-2-pentanone	9.96		"	10.0		99.6	57-145		3.06	30	
Acetone	6.91		"	10.0		69.1	14-150		19.0	30	
Acrolein	8.67		"	10.0		86.7	10-153		5.06	30	
Acrylonitrile	8.27		"	10.0		82.7	51-150		16.3	30	
Benzene	10.9		"	10.0		109	85-126		2.18	30	
Bromochloromethane	8.50		"	10.0		85.0	77-128		20.4	30	
Bromodichloromethane	10.3		"	10.0		103	79-128		0.482	30	
Bromoform	10.7		"	10.0		107	78-133		1.03	30	
Bromomethane	12.9		"	10.0		129	43-168		5.73	30	
Carbon disulfide	9.43		"	10.0		94.3	68-146		18.8	30	
Carbon tetrachloride	9.84		"	10.0		98.4	77-141		11.9	30	
Chlorobenzene	10.3		"	10.0		103	88-120		2.67	30	
Chloroethane	10.6		"	10.0		106	65-136		12.7	30	
Chloroform	9.00		"	10.0		90.0	82-128		16.5	30	
Chloromethane	12.6		"	10.0		126	43-155		0.556	30	
cis-1,2-Dichloroethylene	8.81		"	10.0		88.1	83-129		20.1	30	
cis-1,3-Dichloropropylene	10.3		"	10.0		103	80-131		1.06	30	
Cyclohexane	8.85		"	10.0		88.5	63-149		23.0	30	
Dibromochloromethane	10.6		"	10.0		106	80-130		1.24	30	
Dibromomethane	10.2		"	10.0		102	72-134		0.490	30	
Dichlorodifluoromethane	13.8		"	10.0		138	44-144		2.86	30	
Ethyl Benzene	10.6		"	10.0		106	80-131		2.98	30	
Hexachlorobutadiene	9.37		"	10.0		93.7	67-146		1.48	30	
Isopropylbenzene	10.1		"	10.0		101	76-140		3.30	30	
Methyl acetate	8.36		"	10.0		83.6	51-139		17.4	30	
Methyl tert-butyl ether (MTBE)	9.00		"	10.0		90.0	76-135		14.5	30	
Methylcyclohexane	10.2		"	10.0		102	72-143		3.94	30	
Methylene chloride	8.38		"	10.0		83.8	55-137		21.2	30	
n-Butylbenzene	9.70		"	10.0		97.0	79-132		5.61	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

Batch BL80456 - EPA 5030B

LCS Dup (BL80456-BSD1)

Prepared & Analyzed: 12/10/2018

n-Propylbenzene	10.4		ug/L	10.0		104	78-133		3.48	30	
o-Xylene	10.5		"	10.0		105	78-130		2.72	30	
p- & m- Xylenes	21.8		"	20.0		109	77-133		2.94	30	
p-Isopropyltoluene	10.7		"	10.0		107	81-136		2.94	30	
sec-Butylbenzene	10.9		"	10.0		109	79-137		3.52	30	
Styrene	10.5		"	10.0		105	67-132		1.79	30	
tert-Butyl alcohol (TBA)	37.4		"	50.0		74.8	25-162		13.9	30	
tert-Butylbenzene	10.6		"	10.0		106	77-138		3.07	30	
Tetrachloroethylene	8.92		"	10.0		89.2	82-131		2.98	30	
Toluene	10.5		"	10.0		105	80-127		3.28	30	
trans-1,2-Dichloroethylene	8.62		"	10.0		86.2	80-132		20.6	30	
trans-1,3-Dichloropropylene	10.0		"	10.0		100	78-131		0.802	30	
Trichloroethylene	10.2		"	10.0		102	82-128		3.84	30	
Trichlorofluoromethane	10.7		"	10.0		107	67-139		14.0	30	
Vinyl Chloride	11.5		"	10.0		115	58-145		3.91	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	9.85		"	10.0		98.5	69-130				
Surrogate: SURR: Toluene-d8	9.81		"	10.0		98.1	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.0		"	10.0		100	79-122				



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

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

Batch BL80469 - EPA 200.7

Blank (BL80469-BLK1)

Prepared & Analyzed: 12/10/2018

Iron	ND	0.278	mg/L
Manganese	ND	0.00556	"

LCS (BL80469-BS1)

Prepared & Analyzed: 12/10/2018

Iron	0.957	ug/mL	1.00	95.7	85-115
Manganese	0.489	"	0.500	97.8	85-115



Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BL80495 - EPA 300

Blank (BL80495-BLK1)

Prepared & Analyzed: 12/10/2018

Chloride	ND	0.500	mg/L
Nitrate as N	ND	0.0500	"
Sulfate	ND	1.00	"

LCS (BL80495-BS1)

Prepared & Analyzed: 12/10/2018

Chloride	10.1	0.500	mg/L	10.0	101	85-115
Nitrate as N	10.1	0.0500	"	10.0	101	90-110
Sulfate	9.58	1.00	"	10.0	95.8	85-115



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

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL80457 - Analysis Preparation											
Reference (BL80457-SRM1)						Prepared & Analyzed: 12/10/2018					
Alkalinity, total	60	2.0	mg/L	59.8		100	90-110				
Batch BL80537 - Analysis Preparation											
Blank (BL80537-BLK1)						Prepared & Analyzed: 12/11/2018					
Total Organic Carbon (TOC)	ND	1.00	mg/L								
LCS (BL80537-BS1)						Prepared & Analyzed: 12/11/2018					
Total Organic Carbon (TOC)	64.1	1.00	mg/L	57.8		111	79.5-125.1				
Duplicate (BL80537-DUP1)						Prepared & Analyzed: 12/11/2018					
Total Organic Carbon (TOC)	10.8	1.00	mg/L		10.0				7.56	20	
Matrix Spike (BL80537-MS1)						Prepared & Analyzed: 12/11/2018					
Total Organic Carbon (TOC)	18.9	1.00	mg/L	20.0	10.0	44.3	70-130	Low Bias			



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18L0360-01	MW-33_2018.12.07	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18L0360-02	MW-46_2018.12.07	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18L0360-03	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
HT-01	This result was reported from an analysis conducted outside of the EPA recommended holding time.
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

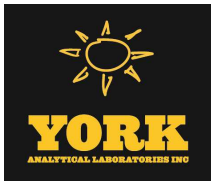
*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration 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.

Field Chain-of-Custody Record

YORK Project No.

1810360

Page _____ of _____

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

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.

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

[illegible]