

Appendix J
Laboratory Analytical Data Packages (CD)

Reuse Soil Sample Laboratory Reports



ANALYTICAL REPORT

Lab Number:	L1831933
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	170500202
Project Number:	170500202
Report Date:	08/17/18

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Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1831933-01	REUSE01_GRAB01_17-20	SOIL	300 WEST 122ND ST.	08/15/18 11:00	08/15/18
L1831933-02	REUSE01_GRAB02_17-20	SOIL	300 WEST 122ND ST.	08/15/18 11:00	08/15/18
L1831933-03	REUSE01_COMP01_17-20	SOIL	300 WEST 122ND ST.	08/15/18 11:10	08/15/18

Project Name: 170500202**Lab Number:** L1831933**Project Number:** 170500202**Report Date:** 08/17/18

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: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

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.

Total Metals

L1831933-03: 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.

Cyanide, Total

The WG1147227-3 LCSD recovery (72%), associated with L1831933-03, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analysis are reported.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 08/17/18

ORGANICS

VOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-01
 Client ID: REUSE01_GRAB01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:00
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/16/18 20:57
 Analyst: JC
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.4	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.97	0.52	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.90	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.97	0.32	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-01
 Client ID: REUSE01_GRAB01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:00
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	0.20	J	ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.88	1
Acetone	59		ug/kg	9.7	4.6	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.1	1
Vinyl acetate	ND		ug/kg	9.7	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.7	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.97	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.10	1
Naphthalene	ND		ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1
Tert-Butyl Alcohol	100		ug/kg	19	5.0	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-01
 Client ID: REUSE01_GRAB01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:00
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.97	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
Methyl Acetate	ND		ug/kg	3.9	0.92	1
Acrolein	ND		ug/kg	24	5.4	1
Cyclohexane	ND		ug/kg	9.7	0.52	1
1,4-Dioxane	ND		ug/kg	97	34.	1
Freon-113	ND		ug/kg	3.9	0.67	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1
Methyl cyclohexane	ND		ug/kg	3.9	0.58	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	96		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-02
 Client ID: REUSE01_GRAB02_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:00
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/16/18 21:23
 Analyst: JC
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-02
 Client ID: REUSE01_GRAB02_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:00
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	38		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1
Tert-Butyl Alcohol	33		ug/kg	22	5.7	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-02
 Client ID: REUSE01_GRAB02_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:00
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Acrolein	ND		ug/kg	28	6.2	1
Cyclohexane	ND		ug/kg	11	0.60	1
1,4-Dioxane	ND		ug/kg	110	39.	1
Freon-113	ND		ug/kg	4.4	0.77	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1
Methyl cyclohexane	ND		ug/kg	4.4	0.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 08/16/18 20:30
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1147681-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.74	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 08/16/18 20:30
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1147681-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/16/18 20:30
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1147681-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 08/16/18 20:30
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1147681-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1147681-3 WG1147681-4								
Methylene chloride	105		96		70-130	9		30
1,1-Dichloroethane	106		106		70-130	0		30
Chloroform	109		105		70-130	4		30
Carbon tetrachloride	119		118		70-130	1		30
1,2-Dichloropropane	113		114		70-130	1		30
Dibromochloromethane	108		106		70-130	2		30
1,1,2-Trichloroethane	114		113		70-130	1		30
Tetrachloroethene	127		117		70-130	8		30
Chlorobenzene	111		105		70-130	6		30
Trichlorofluoromethane	118		112		70-139	5		30
1,2-Dichloroethane	110		108		70-130	2		30
1,1,1-Trichloroethane	115		112		70-130	3		30
Bromodichloromethane	113		110		70-130	3		30
trans-1,3-Dichloropropene	112		112		70-130	0		30
cis-1,3-Dichloropropene	119		119		70-130	0		30
1,1-Dichloropropene	120		117		70-130	3		30
Bromoform	103		102		70-130	1		30
1,1,2,2-Tetrachloroethane	107		103		70-130	4		30
Benzene	109		107		70-130	2		30
Toluene	124		110		70-130	12		30
Ethylbenzene	115		110		70-130	4		30
Chloromethane	116		108		52-130	7		30
Bromomethane	124		112		57-147	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1147681-3 WG1147681-4								
Vinyl chloride	128		122		67-130	5		30
Chloroethane	125		119		50-151	5		30
1,1-Dichloroethene	109		104		65-135	5		30
trans-1,2-Dichloroethene	114		108		70-130	5		30
Trichloroethene	120		117		70-130	3		30
1,2-Dichlorobenzene	105		104		70-130	1		30
1,3-Dichlorobenzene	110		108		70-130	2		30
1,4-Dichlorobenzene	106		104		70-130	2		30
Methyl tert butyl ether	104		102		66-130	2		30
p/m-Xylene	125		112		70-130	11		30
o-Xylene	121		109		70-130	10		30
cis-1,2-Dichloroethene	109		105		70-130	4		30
Dibromomethane	113		110		70-130	3		30
Styrene	101		91		70-130	10		30
Dichlorodifluoromethane	130		122		30-146	6		30
Acetone	112		107		54-140	5		30
Carbon disulfide	93		88		59-130	6		30
2-Butanone	116		117		70-130	1		30
Vinyl acetate	104		99		70-130	5		30
4-Methyl-2-pentanone	102		102		70-130	0		30
1,2,3-Trichloropropane	106		103		68-130	3		30
2-Hexanone	96		105		70-130	9		30
Bromochloromethane	111		106		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1147681-3 WG1147681-4								
2,2-Dichloropropane	118		114		70-130	3		30
1,2-Dibromoethane	112		112		70-130	0		30
1,3-Dichloropropane	107		110		69-130	3		30
1,1,1,2-Tetrachloroethane	116		105		70-130	10		30
Bromobenzene	102		101		70-130	1		30
n-Butylbenzene	124		120		70-130	3		30
sec-Butylbenzene	120		117		70-130	3		30
tert-Butylbenzene	115		113		70-130	2		30
o-Chlorotoluene	108		106		70-130	2		30
p-Chlorotoluene	110		109		70-130	1		30
1,2-Dibromo-3-chloropropane	103		88		68-130	16		30
Hexachlorobutadiene	117		98		67-130	18		30
Isopropylbenzene	111		109		70-130	2		30
p-Isopropyltoluene	119		116		70-130	3		30
Naphthalene	104		92		70-130	12		30
Acrylonitrile	102		103		70-130	1		30
Tert-Butyl Alcohol	110		110		70-130	0		30
n-Propylbenzene	112		110		70-130	2		30
1,2,3-Trichlorobenzene	108		96		70-130	12		30
1,2,4-Trichlorobenzene	112		97		70-130	14		30
1,3,5-Trimethylbenzene	112		110		70-130	2		30
1,2,4-Trimethylbenzene	115		114		70-130	1		30
Methyl Acetate	110		105		51-146	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1147681-3 WG1147681-4								
Acrolein	101		85		70-130	17		30
Cyclohexane	113		108		59-142	5		30
1,4-Dioxane	102		103		65-136	1		30
Freon-113	119		109		50-139	9		30
p-Diethylbenzene	118		116		70-130	2		30
p-Ethyltoluene	112		111		70-130	1		30
1,2,4,5-Tetramethylbenzene	94		84		70-130	11		30
Ethyl ether	95		94		67-130	1		30
trans-1,4-Dichloro-2-butene	104		105		70-130	1		30
Methyl cyclohexane	126		123		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		101		70-130
Toluene-d8	110		101		70-130
4-Bromofluorobenzene	95		97		70-130
Dibromofluoromethane	97		97		70-130

SEMIVOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03
 Client ID: REUSE01_COMP01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:10
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/16/18 13:43
 Analyst: RC
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 08/16/18 02:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Benzidine	ND		ug/kg	570	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Azobenzene	ND		ug/kg	170	16.	1
Fluoranthene	290		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03
 Client ID: REUSE01_COMP01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:10
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	140		ug/kg	100	19.	1
Benzo(a)pyrene	120	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	180		ug/kg	100	29.	1
Benzo(k)fluoranthene	43	J	ug/kg	100	28.	1
Chrysene	140		ug/kg	100	18.	1
Acenaphthylene	37	J	ug/kg	140	27.	1
Anthracene	49	J	ug/kg	100	34.	1
Benzo(ghi)perylene	80	J	ug/kg	140	20.	1
Fluorene	18	J	ug/kg	170	17.	1
Phenanthrene	160		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	21	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	81	J	ug/kg	140	24.	1
Pyrene	250		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
n-Nitrosodimethylamine	ND		ug/kg	340	33.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	830	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03
Client ID: REUSE01_COMP01_17-20
Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:10
Date Received: 08/15/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
Atrazine	ND		ug/kg	140	60.	1
Benzaldehyde	ND		ug/kg	230	46.	1
Caprolactam	ND		ug/kg	170	52.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	92		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	90		18-120

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 08/16/18 10:26
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 20:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1146985-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/16/18 10:26
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/15/18 20:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1146985-1					
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	320	31.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 08/16/18 10:26
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 20:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1146985-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	210	44.
Caprolactam	ND		ug/kg	160	49.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 08/16/18 10:26
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 20:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1146985-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	70		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1146985-2 WG1146985-3								
Acenaphthene	73		80		31-137	9		50
Benidine	28		26		10-66	7		50
1,2,4-Trichlorobenzene	71		74		38-107	4		50
Hexachlorobenzene	77		79		40-140	3		50
Bis(2-chloroethyl)ether	78		79		40-140	1		50
2-Chloronaphthalene	78		83		40-140	6		50
1,2-Dichlorobenzene	71		74		40-140	4		50
1,3-Dichlorobenzene	71		75		40-140	5		50
1,4-Dichlorobenzene	69		73		28-104	6		50
3,3'-Dichlorobenzidine	60		63		40-140	5		50
2,4-Dinitrotoluene	79		86		40-132	8		50
2,6-Dinitrotoluene	82		81		40-140	1		50
Azobenzene	84		87		40-140	4		50
Fluoranthene	78		79		40-140	1		50
4-Chlorophenyl phenyl ether	72		75		40-140	4		50
4-Bromophenyl phenyl ether	75		77		40-140	3		50
Bis(2-chloroisopropyl)ether	82		88		40-140	7		50
Bis(2-chloroethoxy)methane	81		84		40-117	4		50
Hexachlorobutadiene	71		77		40-140	8		50
Hexachlorocyclopentadiene	64		72		40-140	12		50
Hexachloroethane	76		76		40-140	0		50
Isophorone	84		86		40-140	2		50
Naphthalene	72		78		40-140	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1146985-2 WG1146985-3								
Nitrobenzene	81		84		40-140	4		50
NDPA/DPA	76		80		36-157	5		50
n-Nitrosodi-n-propylamine	82		86		32-121	5		50
Bis(2-ethylhexyl)phthalate	82		83		40-140	1		50
Butyl benzyl phthalate	85		84		40-140	1		50
Di-n-butylphthalate	80		82		40-140	2		50
Di-n-octylphthalate	85		88		40-140	3		50
Diethyl phthalate	80		83		40-140	4		50
Dimethyl phthalate	82		83		40-140	1		50
Benzo(a)anthracene	73		77		40-140	5		50
Benzo(a)pyrene	80		86		40-140	7		50
Benzo(b)fluoranthene	79		83		40-140	5		50
Benzo(k)fluoranthene	74		82		40-140	10		50
Chrysene	75		81		40-140	8		50
Acenaphthylene	78		81		40-140	4		50
Anthracene	78		80		40-140	3		50
Benzo(ghi)perylene	77		81		40-140	5		50
Fluorene	77		81		40-140	5		50
Phenanthrene	76		79		40-140	4		50
Dibenzo(a,h)anthracene	77		84		40-140	9		50
Indeno(1,2,3-cd)pyrene	77		84		40-140	9		50
Pyrene	79		78		35-142	1		50
Biphenyl	81		85		54-104	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1146985-2 WG1146985-3								
4-Chloroaniline	87		89		40-140	2		50
2-Nitroaniline	82		84		47-134	2		50
3-Nitroaniline	69		74		26-129	7		50
4-Nitroaniline	76		80		41-125	5		50
Dibenzofuran	74		78		40-140	5		50
2-Methylnaphthalene	75		79		40-140	5		50
1,2,4,5-Tetrachlorobenzene	75		80		40-117	6		50
Acetophenone	84		87		14-144	4		50
n-Nitrosodimethylamine	74		80		22-100	8		50
2,4,6-Trichlorophenol	80		87		30-130	8		50
p-Chloro-m-cresol	86		90		26-103	5		50
2-Chlorophenol	80		82		25-102	2		50
2,4-Dichlorophenol	83		85		30-130	2		50
2,4-Dimethylphenol	87		89		30-130	2		50
2-Nitrophenol	76		81		30-130	6		50
4-Nitrophenol	102		103		11-114	1		50
2,4-Dinitrophenol	69		71		4-130	3		50
4,6-Dinitro-o-cresol	72		74		10-130	3		50
Pentachlorophenol	77		76		17-109	1		50
Phenol	79		81		26-90	3		50
2-Methylphenol	83		84		30-130.	1		50
3-Methylphenol/4-Methylphenol	89		91		30-130	2		50
2,4,5-Trichlorophenol	83		83		30-130	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1146985-2 WG1146985-3								
Benzoic Acid	37		39		10-110	5		50
Benzyl Alcohol	85		88		40-140	3		50
Carbazole	80		81		54-128	1		50
Atrazine	97		96		40-140	1		50
Benzaldehyde	64		66		40-140	3		50
Caprolactam	87		93		15-130	7		50
2,3,4,6-Tetrachlorophenol	75		79		40-140	5		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	83		84		25-120
Phenol-d6	87		88		10-120
Nitrobenzene-d5	84		86		23-120
2-Fluorobiphenyl	78		78		30-120
2,4,6-Tribromophenol	82		85		10-136
4-Terphenyl-d14	79		76		18-120

PCBS

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03
Client ID: REUSE01_COMP01_17-20
Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:10
Date Received: 08/15/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 08/17/18 01:48
Analyst: WR
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 08/16/18 02:31
Cleanup Method: EPA 3665A
Cleanup Date: 08/16/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.7	3.93	1	A
Aroclor 1221	ND		ug/kg	34.7	5.28	1	A
Aroclor 1232	ND		ug/kg	34.7	3.41	1	A
Aroclor 1242	11.8	J	ug/kg	34.7	4.24	1	B
Aroclor 1248	ND		ug/kg	34.7	3.89	1	A
Aroclor 1254	12.5	J	ug/kg	34.7	2.83	1	B
Aroclor 1260	4.05	J	ug/kg	34.7	3.62	1	A
Aroclor 1262	ND		ug/kg	34.7	2.85	1	A
Aroclor 1268	ND		ug/kg	34.7	2.45	1	A
PCBs, Total	28.4	J	ug/kg	34.7	2.45	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
 Analytical Date: 08/16/18 12:27
 Analyst: WR

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 08:33
 Cleanup Method: EPA 3665A
 Cleanup Date: 08/16/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03 Batch: WG1146666-1						
Aroclor 1016	ND		ug/kg	33.0	3.74	A
Aroclor 1221	ND		ug/kg	33.0	5.02	A
Aroclor 1232	ND		ug/kg	33.0	3.24	A
Aroclor 1242	ND		ug/kg	33.0	4.03	A
Aroclor 1248	22.2	J	ug/kg	33.0	3.70	A
Aroclor 1254	ND		ug/kg	33.0	2.69	A
Aroclor 1260	ND		ug/kg	33.0	3.44	A
Aroclor 1262	ND		ug/kg	33.0	2.71	A
Aroclor 1268	ND		ug/kg	33.0	2.33	A
PCBs, Total	22.2	J	ug/kg	33.0	2.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	110		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03 Batch: WG1146666-2 WG1146666-3									
Aroclor 1016	65		64		40-140	2		50	A
Aroclor 1260	58		55		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		97		30-150	A
Decachlorobiphenyl	84		79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		81		30-150	B
Decachlorobiphenyl	97		80		30-150	B

PESTICIDES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03
Client ID: REUSE01_COMP01_17-20
Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:10
Date Received: 08/15/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/16/18 15:10
Analyst: KEG
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 08/16/18 02:30
Cleanup Method: EPA 3620B
Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.325	1	A
Lindane	ND		ug/kg	0.691	0.309	1	A
Alpha-BHC	ND		ug/kg	0.691	0.196	1	A
Beta-BHC	ND		ug/kg	1.66	0.629	1	A
Heptachlor	ND		ug/kg	0.829	0.372	1	A
Aldrin	ND		ug/kg	1.66	0.584	1	A
Heptachlor epoxide	ND		ug/kg	3.11	0.933	1	A
Endrin	ND		ug/kg	0.691	0.283	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.726	1	A
Endrin ketone	ND		ug/kg	1.66	0.427	1	A
Dieldrin	ND	PI	ug/kg	1.04	0.518	1	A
4,4'-DDE	1.01	J	ug/kg	1.66	0.384	1	A
4,4'-DDD	ND		ug/kg	1.66	0.592	1	A
4,4'-DDT	1.79	J	ug/kg	3.11	1.33	1	B
Endosulfan I	ND		ug/kg	1.66	0.392	1	A
Endosulfan II	ND		ug/kg	1.66	0.554	1	A
Endosulfan sulfate	ND		ug/kg	0.691	0.329	1	A
Methoxychlor	ND		ug/kg	3.11	0.968	1	A
Toxaphene	ND		ug/kg	31.1	8.71	1	A
cis-Chlordane	1.35	JPI	ug/kg	2.07	0.578	1	B
trans-Chlordane	2.18	PI	ug/kg	2.07	0.547	1	A
Chlordane	ND		ug/kg	13.5	5.49	1	A

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03
 Client ID: REUSE01_COMP01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:10
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	74		30-150	B
2,4,5,6-Tetrachloro-m-xylene	110		30-150	A
Decachlorobiphenyl	63		30-150	A

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03
 Client ID: REUSE01_COMP01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:10
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 08/17/18 12:01
 Analyst: SL
 Percent Solids: 94%
 Methylation Date: 08/17/18 06:16

Extraction Method: EPA 8151A
 Extraction Date: 08/16/18 07:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	176	11.1	1	A
2,4,5-T	ND		ug/kg	176	5.46	1	A
2,4,5-TP (Silvex)	ND		ug/kg	176	4.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	79		30-150	B

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 08/16/18 13:53
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 08:31
 Cleanup Method: EPA 3620B
 Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1146665-1						
Delta-BHC	ND		ug/kg	1.56	0.306	A
Lindane	ND		ug/kg	0.650	0.291	A
Alpha-BHC	ND		ug/kg	0.650	0.185	A
Beta-BHC	ND		ug/kg	1.56	0.592	A
Heptachlor	ND		ug/kg	0.780	0.350	A
Aldrin	ND		ug/kg	1.56	0.549	A
Heptachlor epoxide	ND		ug/kg	2.92	0.878	A
Endrin	ND		ug/kg	0.650	0.266	A
Endrin aldehyde	ND		ug/kg	1.95	0.683	A
Endrin ketone	ND		ug/kg	1.56	0.402	A
Dieldrin	ND		ug/kg	0.975	0.488	A
4,4'-DDE	ND		ug/kg	1.56	0.361	A
4,4'-DDD	ND		ug/kg	1.56	0.556	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.369	A
Endosulfan II	ND		ug/kg	1.56	0.521	A
Endosulfan sulfate	ND		ug/kg	0.650	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.910	A
Toxaphene	ND		ug/kg	29.2	8.19	A
cis-Chlordane	ND		ug/kg	1.95	0.544	A
trans-Chlordane	ND		ug/kg	1.95	0.515	A
Chlordane	ND		ug/kg	12.7	5.17	A

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 08/16/18 13:53
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 08:31
 Cleanup Method: EPA 3620B
 Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1146665-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	69		30-150	A

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
 Analytical Date: 08/17/18 14:59
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 08/16/18 06:42

Methylation Date: 08/17/18 06:16

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 03 Batch: WG1147122-1						
2,4-D	ND		ug/kg	163	10.3	A
2,4,5-T	ND		ug/kg	163	5.05	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	97		30-150	A
DCAA	74		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1146665-2 WG1146665-3									
Delta-BHC	55		86		30-150	44	Q	30	A
Lindane	57		90		30-150	45	Q	30	A
Alpha-BHC	57		87		30-150	42	Q	30	A
Beta-BHC	61		96		30-150	45	Q	30	A
Heptachlor	91		131		30-150	36	Q	30	A
Aldrin	61		94		30-150	43	Q	30	A
Heptachlor epoxide	66		100		30-150	41	Q	30	A
Endrin	66		101		30-150	42	Q	30	A
Endrin aldehyde	56		83		30-150	39	Q	30	A
Endrin ketone	58		90		30-150	43	Q	30	A
Dieldrin	66		101		30-150	42	Q	30	A
4,4'-DDE	55		85		30-150	43	Q	30	A
4,4'-DDD	64		96		30-150	40	Q	30	A
4,4'-DDT	71		105		30-150	39	Q	30	A
Endosulfan I	61		93		30-150	42	Q	30	A
Endosulfan II	63		97		30-150	43	Q	30	A
Endosulfan sulfate	66		97		30-150	38	Q	30	A
Methoxychlor	70		104		30-150	39	Q	30	A
cis-Chlordane	49		78		30-150	46	Q	30	A
trans-Chlordane	50		74		30-150	39	Q	30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1146665-2 WG1146665-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	57		91		30-150	B
Decachlorobiphenyl	61		95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		97		30-150	A
Decachlorobiphenyl	49		78		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1147122-2 WG1147122-3									
2,4-D	105		109		30-150	4		30	A
2,4,5-T	72		74		30-150	3		30	A
2,4,5-TP (Silvex)	85		78		30-150	9		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	93		114		30-150	A
DCAA	82		88		30-150	B

METALS

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03
 Client ID: REUSE01_COMP01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:10
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3540		mg/kg	7.98	2.16	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	3.99	0.303	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Arsenic, Total	1.78		mg/kg	0.798	0.166	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Barium, Total	40.4		mg/kg	0.798	0.139	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Beryllium, Total	0.152	J	mg/kg	0.399	0.026	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Cadmium, Total	0.160	J	mg/kg	0.798	0.078	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Calcium, Total	17600		mg/kg	7.98	2.79	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Chromium, Total	8.47		mg/kg	0.798	0.077	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Cobalt, Total	3.44		mg/kg	1.60	0.132	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Copper, Total	14.5		mg/kg	0.798	0.206	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Iron, Total	6770		mg/kg	3.99	0.721	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Lead, Total	59.9		mg/kg	3.99	0.214	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Magnesium, Total	2160		mg/kg	7.98	1.23	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Manganese, Total	229		mg/kg	0.798	0.127	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Mercury, Total	0.115		mg/kg	0.067	0.014	1	08/16/18 07:00	08/16/18 15:28	EPA 7471B	1,7471B	MG
Nickel, Total	7.93		mg/kg	2.00	0.193	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Potassium, Total	596		mg/kg	200	11.5	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.60	0.206	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.798	0.226	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Sodium, Total	139	J	mg/kg	160	2.51	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.60	0.251	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Vanadium, Total	9.62		mg/kg	0.798	0.162	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Zinc, Total	43.2		mg/kg	3.99	0.234	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.5		mg/kg	0.85	0.85	1		08/17/18 15:48	NA	107,-	



Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

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): 03 Batch: WG1147101-1										
Mercury, Total	0.023	J	mg/kg	0.083	0.018	1	08/16/18 07:00	08/16/18 10:39	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03 Batch: WG1147666-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Arsenic, Total	0.084	J	mg/kg	0.400	0.083	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Iron, Total	ND		mg/kg	2.00	0.361	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Sodium, Total	2.18	J	mg/kg	80.0	1.26	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1147101-2 SRM Lot Number: D098-540								
Mercury, Total	102		-		50-149	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1147666-2 SRM Lot Number: D098-540					
Aluminum, Total	65	-	47-153	-	
Antimony, Total	144	-	6-194	-	
Arsenic, Total	99	-	83-117	-	
Barium, Total	92	-	82-118	-	
Beryllium, Total	94	-	83-117	-	
Cadmium, Total	106	-	82-117	-	
Calcium, Total	91	-	81-118	-	
Chromium, Total	94	-	83-119	-	
Cobalt, Total	101	-	84-116	-	
Copper, Total	94	-	84-116	-	
Iron, Total	84	-	60-140	-	
Lead, Total	96	-	82-117	-	
Magnesium, Total	78	-	76-124	-	
Manganese, Total	94	-	82-118	-	
Nickel, Total	100	-	82-117	-	
Potassium, Total	79	-	69-131	-	
Selenium, Total	102	-	78-121	-	
Silver, Total	98	-	80-120	-	
Sodium, Total	94	-	74-126	-	
Thallium, Total	103	-	80-119	-	
Vanadium, Total	93	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1147666-2 SRM Lot Number: D098-540					
Zinc, Total	97	-	81-119	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1147101-3 QC Sample: L1831896-01 Client ID: MS Sample												
Mercury, Total	0.073	0.141	0.269	139	Q	-	-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1147666-3 QC Sample: L1831042-04 Client ID: MS Sample									
Aluminum, Total	6160	188	7160	532	Q	-	75-125	-	20
Antimony, Total	ND	47	26.2	56	Q	-	75-125	-	20
Arsenic, Total	6.22	11.3	14.0	69	Q	-	75-125	-	20
Barium, Total	45.8	188	167	64	Q	-	75-125	-	20
Beryllium, Total	0.564	4.7	3.54	63	Q	-	75-125	-	20
Cadmium, Total	0.206J	4.8	3.17	66	Q	-	75-125	-	20
Calcium, Total	1270	940	1790	55	Q	-	75-125	-	20
Chromium, Total	8.07	18.8	19.6	61	Q	-	75-125	-	20
Cobalt, Total	5.98	47	33.7	59	Q	-	75-125	-	20
Copper, Total	10.8	23.5	26.1	65	Q	-	75-125	-	20
Iron, Total	12300	94	12200	0	Q	-	75-125	-	20
Lead, Total	12.6	48	42.4	62	Q	-	75-125	-	20
Magnesium, Total	1500	940	2170	71	Q	-	75-125	-	20
Manganese, Total	174.	47	203	62	Q	-	75-125	-	20
Nickel, Total	7.29	47	35.1	59	Q	-	75-125	-	20
Potassium, Total	440.	940	1130	73	Q	-	75-125	-	20
Selenium, Total	0.293J	11.3	7.59	67	Q	-	75-125	-	20
Silver, Total	ND	28.2	19.0	67	Q	-	75-125	-	20
Sodium, Total	235.	940	816	62	Q	-	75-125	-	20
Thallium, Total	ND	11.3	6.57	58	Q	-	75-125	-	20
Vanadium, Total	15.9	47	46.6	65	Q	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1147666-3 QC Sample: L1831042-04 Client ID: MS Sample									
Zinc, Total	45.6	47	78.5	70	Q	-	75-125	-	20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1147101-4 QC Sample: L1831896-01 Client ID: DUP Sample						
Mercury, Total	0.073	0.088	mg/kg	18		20
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1147666-4 QC Sample: L1831042-04 Client ID: DUP Sample						
Lead, Total	12.6	14.9	mg/kg	17		20

INORGANICS & MISCELLANEOUS

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-01
 Client ID: REUSE01_GRAB01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:00
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.7		%	0.100	NA	1	-	08/16/18 03:28	121,2540G	FN



Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-02
 Client ID: REUSE01_GRAB02_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:00
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.8		%	0.100	NA	1	-	08/16/18 03:28	121,2540G	FN



Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03
 Client ID: REUSE01_COMP01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:10
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.2		%	0.100	NA	1	-	08/16/18 04:42	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.0	0.21	1	08/16/18 11:35	08/16/18 14:45	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.849	0.170	1	08/16/18 18:30	08/17/18 10:46	1,7196A	NH



Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

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): 03 Batch: WG1147227-1									
Cyanide, Total	ND	mg/kg	0.90	0.19	1	08/16/18 11:35	08/16/18 14:39	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1147488-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	08/16/18 18:30	08/17/18 10:46	1,7196A	NH

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1147227-2 WG1147227-3								
Cyanide, Total	80		72	Q	80-120	11		35
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1147488-2								
Chromium, Hexavalent	82		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1147227-4 WG1147227-5 QC Sample: L1831933-03 Client ID: REUSE01_COMP01_17-20												
Cyanide, Total	ND	10	9.9	99		10	100		75-125	1		35
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1147488-4 QC Sample: L1831933-03 Client ID: REUSE01_COMP01_17-20												
Chromium, Hexavalent	ND	791	736	93		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1147062-1 QC Sample: L1831582-01 Client ID: DUP Sample						
Solids, Total	87.5	87.4	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1147081-1 QC Sample: L1831931-01 Client ID: DUP Sample						
Solids, Total	27.0	21.9	%	21	Q	20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1147488-6 QC Sample: L1831933-03 Client ID: REUSE01_COMP01_17-20						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 170500202
Project Number: 170500202

Serial_No:08171819:22
Lab Number: L1831933
Report Date: 08/17/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1831933-01A	Vial MeOH preserved	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1831933-01B	Vial water preserved	A	NA		4.9	Y	Absent	16-AUG-18 02:53	NYTCL-8260HLW(14)
L1831933-01C	Vial water preserved	A	NA		4.9	Y	Absent	16-AUG-18 02:53	NYTCL-8260HLW(14)
L1831933-01D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		TS(7)
L1831933-02A	Vial MeOH preserved	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1831933-02B	Vial water preserved	A	NA		4.9	Y	Absent	16-AUG-18 02:53	NYTCL-8260HLW(14)
L1831933-02C	Vial water preserved	A	NA		4.9	Y	Absent	16-AUG-18 02:53	NYTCL-8260HLW(14)
L1831933-02D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		TS(7)
L1831933-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	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)
L1831933-03B	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1831933-03C	Glass 500ml/16oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

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 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 exceedances 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: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



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: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, 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, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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 YORK CHAIN OF CUSTODY	Service Centers	Page	Date Rec'd in Lab	ALPHA Job #
	Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	of	8/15/18	L1931933

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
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Project Information	Deliverables
Project Name: 170500202	<input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B
Project Location: 300 WEST 122 ND ST	<input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File)
Project # 170500202	<input type="checkbox"/> Other <input checked="" type="checkbox"/> EMAIL
(Use Project name as Project #) <input type="checkbox"/>	Regulatory Requirement
Project Manager: GREG WYKA	<input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375
ALPHAQuote #:	<input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51
Turn-Around Time	<input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other
Standard <input checked="" type="checkbox"/>	<input type="checkbox"/> NY Unrestricted Use
Rush (only if pre approved) <input checked="" type="checkbox"/>	<input type="checkbox"/> NYC Sewer Discharge
Due Date: 2 DAY RUSH	

Billing Information	Disposal Site Information
<input type="checkbox"/> Same as Client Info	Please identify below location of applicable disposal facilities.
PO #	Disposal Facility:
	<input type="checkbox"/> NJ <input type="checkbox"/> NY
	<input type="checkbox"/> Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS										Sample Filtration	
											<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)
PART 375 VOC's 375 SVOC'S, PCB's PEST, HERB, METALS NI/TRI CHROM CYANIDE										Sample Specific Comments	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	DATE	TIME	ANALYSIS	PRESERVATIVE	CONTAINER	REMARKS
		Date	Time								
31933 - 01	REUSEOL-GRAB01-17-20	08/15	1100	SOIL	DE						
- 02	REUSEOL-GRAB02-17-20	08/15	1100	SOIL	DE						
- 03	REUSEOL-COMP01-17-20	08/15	1100	SOIL	DE						

Preservative Code:	Container Code	Westboro: Certification No: MA935
A = None	P = Plastic	Mansfield: Certification No: MA015
B = HCl	A = Amber Glass	
C = HNO ₃	V = Vial	
D = H ₂ SO ₄	G = Glass	
E = NaOH	B = Bacteria Cup	
F = MeOH	C = Cube	
G = NaHSO ₄	O = Other	
H = Na ₂ S ₂ O ₃	E = Encore	
K/E = Zn Ac/NaOH	D = BOD Bottle	
O = Other		

Container Type	Preservative	Relinquished By:	Date/Time
		D. Santos AAL	08/15 1334
		D. Santos AAL	08/15 1714
		D. Santos AAL	8/15/18 2340
		Received By:	Date/Time
		Primeik Jackson AAL	8/15 1334
		D. Santos AAL	8/15/18 1830
			8/15/18 2340

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.)



ANALYTICAL REPORT

Lab Number:	L1913801
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND STREET
Project Number:	170500202
Report Date:	04/08/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1913801-01	REUSE03_GRAB01	SOIL	NY, NY	04/05/19 11:15	04/05/19
L1913801-02	REUSE03_COMP01	SOIL	NY, NY	04/05/19 11:18	04/05/19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

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.

Total Metals

L1913801-02: 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.

The WG1223761-3 MS recoveries for aluminum (155%), iron (0%), and manganese (0%), performed on L1913801-02, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1223761-3 MS recovery, performed on L1913801-02, is outside the acceptance criteria for lead (30%). A post digestion spike was performed and was within acceptance criteria.

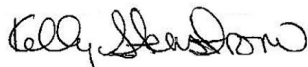
The WG1223761-4 Laboratory Duplicate RPD for cobalt (21%), lead (58%), magnesium (29%), and nickel (22%), performed on L1913801-02, are above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPDs are valid.

Cyanide, Total

The WG1223991-3 LCSD recovery (77%), associated with L1913801-02, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: 04/08/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-01
 Client ID: REUSE03_GRAB01
 Sample Location: NY, NY

Date Collected: 04/05/19 11:15
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/07/19 17:11
 Analyst: JC
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	0.28	J	ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-01
 Client ID: REUSE03_GRAB01
 Sample Location: NY, NY

Date Collected: 04/05/19 11:15
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1
Tert-Butyl Alcohol	ND		ug/kg	22	5.7	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-01
 Client ID: REUSE03_GRAB01
 Sample Location: NY, NY

Date Collected: 04/05/19 11:15
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Acrolein	ND		ug/kg	28	6.2	1
Cyclohexane	ND		ug/kg	11	0.60	1
1,4-Dioxane	ND		ug/kg	88	39.	1
Freon-113	ND		ug/kg	4.4	0.77	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1
Methyl cyclohexane	ND		ug/kg	4.4	0.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	95		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 04/07/19 13:16
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1224216-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	1.4	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/07/19 13:16
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1224216-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.24	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 04/07/19 13:16
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1224216-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 04/07/19 13:16
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1224216-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1224216-3 WG1224216-4								
Methylene chloride	101		100		70-130	1		30
1,1-Dichloroethane	112		110		70-130	2		30
Chloroform	107		102		70-130	5		30
Carbon tetrachloride	102		99		70-130	3		30
1,2-Dichloropropane	113		110		70-130	3		30
Dibromochloromethane	98		97		70-130	1		30
1,1,2-Trichloroethane	103		104		70-130	1		30
Tetrachloroethene	92		90		70-130	2		30
Chlorobenzene	99		98		70-130	1		30
Trichlorofluoromethane	87		84		70-139	4		30
1,2-Dichloroethane	109		110		70-130	1		30
1,1,1-Trichloroethane	103		101		70-130	2		30
Bromodichloromethane	105		104		70-130	1		30
trans-1,3-Dichloropropene	108		107		70-130	1		30
cis-1,3-Dichloropropene	105		104		70-130	1		30
1,1-Dichloropropene	107		105		70-130	2		30
Bromoform	95		95		70-130	0		30
1,1,2,2-Tetrachloroethane	104		106		70-130	2		30
Benzene	104		102		70-130	2		30
Toluene	106		103		70-130	3		30
Ethylbenzene	106		103		70-130	3		30
Chloromethane	94		93		52-130	1		30
Bromomethane	92		91		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1224216-3 WG1224216-4								
Vinyl chloride	90		87		67-130	3		30
Chloroethane	91		90		50-151	1		30
1,1-Dichloroethene	95		92		65-135	3		30
trans-1,2-Dichloroethene	97		95		70-130	2		30
Trichloroethene	103		101		70-130	2		30
1,2-Dichlorobenzene	98		98		70-130	0		30
1,3-Dichlorobenzene	101		99		70-130	2		30
1,4-Dichlorobenzene	99		98		70-130	1		30
Methyl tert butyl ether	97		98		66-130	1		30
p/m-Xylene	100		97		70-130	3		30
o-Xylene	99		96		70-130	3		30
cis-1,2-Dichloroethene	98		95		70-130	3		30
Dibromomethane	99		98		70-130	1		30
Styrene	97		95		70-130	2		30
Dichlorodifluoromethane	80		77		30-146	4		30
Acetone	106		106		54-140	0		30
Carbon disulfide	98		94		59-130	4		30
2-Butanone	88		87		70-130	1		30
Vinyl acetate	111		110		70-130	1		30
4-Methyl-2-pentanone	97		100		70-130	3		30
1,2,3-Trichloropropane	104		105		68-130	1		30
2-Hexanone	102		103		70-130	1		30
Bromochloromethane	92		94		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1224216-3 WG1224216-4								
2,2-Dichloropropane	111		107		70-130	4		30
1,2-Dibromoethane	98		100		70-130	2		30
1,3-Dichloropropane	106		107		69-130	1		30
1,1,1,2-Tetrachloroethane	98		97		70-130	1		30
Bromobenzene	98		97		70-130	1		30
n-Butylbenzene	114		111		70-130	3		30
sec-Butylbenzene	110		108		70-130	2		30
tert-Butylbenzene	106		104		70-130	2		30
o-Chlorotoluene	113		111		70-130	2		30
p-Chlorotoluene	112		110		70-130	2		30
1,2-Dibromo-3-chloropropane	87		91		68-130	4		30
Hexachlorobutadiene	97		94		67-130	3		30
Isopropylbenzene	110		107		70-130	3		30
p-Isopropyltoluene	106		104		70-130	2		30
Naphthalene	93		95		70-130	2		30
Acrylonitrile	101		101		70-130	0		30
Tert-Butyl Alcohol	99		104		70-130	5		30
n-Propylbenzene	114		111		70-130	3		30
1,2,3-Trichlorobenzene	94		94		70-130	0		30
1,2,4-Trichlorobenzene	97		96		70-130	1		30
1,3,5-Trimethylbenzene	108		107		70-130	1		30
1,2,4-Trimethylbenzene	107		104		70-130	3		30
Methyl Acetate	95		96		51-146	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1224216-3 WG1224216-4								
Acrolein	91		94		70-130	3		30
Cyclohexane	115		111		59-142	4		30
1,4-Dioxane	96		97		65-136	1		30
Freon-113	103		99		50-139	4		30
p-Diethylbenzene	106		103		70-130	3		30
p-Ethyltoluene	110		108		70-130	2		30
1,2,4,5-Tetramethylbenzene	101		100		70-130	1		30
Ethyl ether	100		100		67-130	0		30
trans-1,4-Dichloro-2-butene	117		118		70-130	1		30
Methyl cyclohexane	106		103		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		108		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	112		112		70-130
Dibromofluoromethane	97		98		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-02
 Client ID: REUSE03_COMP01
 Sample Location: NY, NY

Date Collected: 04/05/19 11:18
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/07/19 05:55
 Analyst: SZ
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 04/06/19 03:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Benzidine	ND		ug/kg	580	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Azobenzene	ND		ug/kg	170	17.	1
Fluoranthene	130		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-02
 Client ID: REUSE03_COMP01
 Sample Location: NY, NY

Date Collected: 04/05/19 11:18
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	37.	1
Benzo(a)anthracene	76	J	ug/kg	100	20.	1
Benzo(a)pyrene	68	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	84	J	ug/kg	100	29.	1
Benzo(k)fluoranthene	35	J	ug/kg	100	28.	1
Chrysene	67	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	45	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	67	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	50	J	ug/kg	140	24.	1
Pyrene	120		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	34.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	22.	1
n-Nitrosodimethylamine	ND		ug/kg	350	33.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-02
 Client ID: REUSE03_COMP01
 Sample Location: NY, NY

Date Collected: 04/05/19 11:18
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
Atrazine	ND		ug/kg	140	61.	1
Benzaldehyde	ND		ug/kg	230	47.	1
Caprolactam	ND		ug/kg	170	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	84		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/06/19 23:58
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/06/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1223743-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	97	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/06/19 23:58
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/06/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1223743-1					
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	320	31.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/06/19 23:58
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/06/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1223743-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	210	44.
Caprolactam	ND		ug/kg	160	49.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	87		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1223743-2 WG1223743-3								
Acenaphthene	80		74		31-137	8		50
Benzidine	44		44		10-66	0		50
1,2,4-Trichlorobenzene	76		69		38-107	10		50
Hexachlorobenzene	81		78		40-140	4		50
Bis(2-chloroethyl)ether	72		65		40-140	10		50
2-Chloronaphthalene	78		72		40-140	8		50
1,2-Dichlorobenzene	74		68		40-140	8		50
1,3-Dichlorobenzene	75		68		40-140	10		50
1,4-Dichlorobenzene	75		69		28-104	8		50
3,3'-Dichlorobenzidine	60		62		40-140	3		50
2,4-Dinitrotoluene	98		92		40-132	6		50
2,6-Dinitrotoluene	94		90		40-140	4		50
Azobenzene	78		76		40-140	3		50
Fluoranthene	82		78		40-140	5		50
4-Chlorophenyl phenyl ether	78		75		40-140	4		50
4-Bromophenyl phenyl ether	82		77		40-140	6		50
Bis(2-chloroisopropyl)ether	66		61		40-140	8		50
Bis(2-chloroethoxy)methane	76		69		40-117	10		50
Hexachlorobutadiene	73		68		40-140	7		50
Hexachlorocyclopentadiene	66		59		40-140	11		50
Hexachloroethane	72		66		40-140	9		50
Isophorone	80		73		40-140	9		50
Naphthalene	74		70		40-140	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1223743-2 WG1223743-3								
Nitrobenzene	77		71		40-140	8		50
NDPA/DPA	83		79		36-157	5		50
n-Nitrosodi-n-propylamine	81		72		32-121	12		50
Bis(2-ethylhexyl)phthalate	89		83		40-140	7		50
Butyl benzyl phthalate	88		81		40-140	8		50
Di-n-butylphthalate	92		88		40-140	4		50
Di-n-octylphthalate	91		85		40-140	7		50
Diethyl phthalate	85		82		40-140	4		50
Dimethyl phthalate	86		81		40-140	6		50
Benzo(a)anthracene	83		79		40-140	5		50
Benzo(a)pyrene	87		82		40-140	6		50
Benzo(b)fluoranthene	86		78		40-140	10		50
Benzo(k)fluoranthene	83		80		40-140	4		50
Chrysene	78		73		40-140	7		50
Acenaphthylene	85		81		40-140	5		50
Anthracene	83		79		40-140	5		50
Benzo(ghi)perylene	81		76		40-140	6		50
Fluorene	82		79		40-140	4		50
Phenanthrene	78		75		40-140	4		50
Dibenzo(a,h)anthracene	83		78		40-140	6		50
Indeno(1,2,3-cd)pyrene	85		80		40-140	6		50
Pyrene	80		76		35-142	5		50
Biphenyl	84		79		54-104	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1223743-2 WG1223743-3								
4-Chloroaniline	55		53		40-140	4		50
2-Nitroaniline	92		88		47-134	4		50
3-Nitroaniline	67		64		26-129	5		50
4-Nitroaniline	87		84		41-125	4		50
Dibenzofuran	82		78		40-140	5		50
2-Methylnaphthalene	78		71		40-140	9		50
1,2,4,5-Tetrachlorobenzene	81		73		40-117	10		50
Acetophenone	83		75		14-144	10		50
n-Nitrosodimethylamine	72		65		22-100	10		50
2,4,6-Trichlorophenol	87		82		30-130	6		50
p-Chloro-m-cresol	87		81		26-103	7		50
2-Chlorophenol	81		74		25-102	9		50
2,4-Dichlorophenol	89		82		30-130	8		50
2,4-Dimethylphenol	84		77		30-130	9		50
2-Nitrophenol	88		79		30-130	11		50
4-Nitrophenol	84		81		11-114	4		50
2,4-Dinitrophenol	69		67		4-130	3		50
4,6-Dinitro-o-cresol	87		83		10-130	5		50
Pentachlorophenol	73		69		17-109	6		50
Phenol	72		66		26-90	9		50
2-Methylphenol	80		74		30-130	8		50
3-Methylphenol/4-Methylphenol	81		74		30-130	9		50
2,4,5-Trichlorophenol	85		83		30-130	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1223743-2 WG1223743-3								
Benzoic Acid	67		65		10-110	3		50
Benzyl Alcohol	82		74		40-140	10		50
Carbazole	86		82		54-128	5		50
Atrazine	102		98		40-140	4		50
Benzaldehyde	81		74		40-140	9		50
Caprolactam	96		90		15-130	6		50
2,3,4,6-Tetrachlorophenol	84		80		40-140	5		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	78		72		25-120
Phenol-d6	79		73		10-120
Nitrobenzene-d5	79		71		23-120
2-Fluorobiphenyl	79		73		30-120
2,4,6-Tribromophenol	94		91		10-136
4-Terphenyl-d14	81		77		18-120

PCBS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-02
Client ID: REUSE03_COMP01
Sample Location: NY, NY

Date Collected: 04/05/19 11:18
Date Received: 04/05/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/07/19 20:01
Analyst: HT
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 04/06/19 04:04
Cleanup Method: EPA 3665A
Cleanup Date: 04/06/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/06/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.2	3.03	1	A
Aroclor 1221	ND		ug/kg	34.2	3.42	1	A
Aroclor 1232	ND		ug/kg	34.2	7.24	1	A
Aroclor 1242	ND		ug/kg	34.2	4.61	1	A
Aroclor 1248	ND		ug/kg	34.2	5.13	1	A
Aroclor 1254	ND		ug/kg	34.2	3.74	1	A
Aroclor 1260	ND		ug/kg	34.2	6.32	1	A
Aroclor 1262	ND		ug/kg	34.2	4.34	1	A
Aroclor 1268	ND		ug/kg	34.2	3.54	1	A
PCBs, Total	ND		ug/kg	34.2	3.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	42		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/07/19 20:14
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 04/05/19 22:28
Cleanup Method: EPA 3665A
Cleanup Date: 04/06/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/06/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02 Batch: WG1223712-1						
Aroclor 1016	ND		ug/kg	32.5	2.88	A
Aroclor 1221	ND		ug/kg	32.5	3.26	A
Aroclor 1232	ND		ug/kg	32.5	6.89	A
Aroclor 1242	ND		ug/kg	32.5	4.38	A
Aroclor 1248	ND		ug/kg	32.5	4.87	A
Aroclor 1254	ND		ug/kg	32.5	3.55	A
Aroclor 1260	ND		ug/kg	32.5	6.00	A
Aroclor 1262	ND		ug/kg	32.5	4.13	A
Aroclor 1268	ND		ug/kg	32.5	3.36	A
PCBs, Total	ND		ug/kg	32.5	2.88	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	44		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02 Batch: WG1223712-2 WG1223712-3									
Aroclor 1016	62		58		40-140	7		50	A
Aroclor 1260	56		50		40-140	11		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		58		30-150	A
Decachlorobiphenyl	67		57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		69		30-150	B
Decachlorobiphenyl	72		67		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-02
 Client ID: REUSE03_COMP01
 Sample Location: NY, NY

Date Collected: 04/05/19 11:18
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/08/19 11:59
 Analyst: KEG
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 04/06/19 03:48
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/07/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.322	1	A
Lindane	ND		ug/kg	0.686	0.306	1	A
Alpha-BHC	ND		ug/kg	0.686	0.195	1	A
Beta-BHC	ND		ug/kg	1.64	0.624	1	A
Heptachlor	ND		ug/kg	0.823	0.369	1	A
Aldrin	ND		ug/kg	1.64	0.579	1	A
Heptachlor epoxide	ND		ug/kg	3.08	0.926	1	A
Endrin	ND		ug/kg	0.686	0.281	1	A
Endrin aldehyde	ND		ug/kg	2.06	0.720	1	A
Endrin ketone	ND		ug/kg	1.64	0.424	1	A
Dieldrin	ND		ug/kg	1.03	0.514	1	A
4,4'-DDE	ND		ug/kg	1.64	0.380	1	A
4,4'-DDD	ND		ug/kg	1.64	0.587	1	A
4,4'-DDT	ND		ug/kg	3.08	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.389	1	A
Endosulfan II	ND		ug/kg	1.64	0.550	1	A
Endosulfan sulfate	ND		ug/kg	0.686	0.326	1	A
Methoxychlor	ND		ug/kg	3.08	0.960	1	A
Toxaphene	ND		ug/kg	30.8	8.64	1	A
cis-Chlordane	ND	IP	ug/kg	2.06	0.573	1	B
trans-Chlordane	ND		ug/kg	2.06	0.543	1	A
Chlordane	ND		ug/kg	13.4	5.45	1	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-02
 Client ID: REUSE03_COMP01
 Sample Location: NY, NY

Date Collected: 04/05/19 11:18
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	100		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	94		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-02
 Client ID: REUSE03_COMP01
 Sample Location: NY, NY

Date Collected: 04/05/19 11:18
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/08/19 12:21
 Analyst: DGM
 Percent Solids: 94%
 Methylation Date: 04/06/19 21:12

Extraction Method: EPA 8151A
 Extraction Date: 04/06/19 02:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	177	11.2	1	A
2,4,5-T	ND		ug/kg	177	5.49	1	A
2,4,5-TP (Silvex)	ND		ug/kg	177	4.71	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	69		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/08/19 11:22
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 04/05/19 23:12
Cleanup Method: EPA 3620B
Cleanup Date: 04/07/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1223716-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.632	0.283	A
Alpha-BHC	ND		ug/kg	0.632	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.576	A
Heptachlor	ND		ug/kg	0.759	0.340	A
Aldrin	ND		ug/kg	1.52	0.534	A
Heptachlor epoxide	ND		ug/kg	2.85	0.854	A
Endrin	ND		ug/kg	0.632	0.259	A
Endrin aldehyde	ND		ug/kg	1.90	0.664	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.949	0.474	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.541	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.507	A
Endosulfan sulfate	ND		ug/kg	0.632	0.301	A
Methoxychlor	ND		ug/kg	2.85	0.886	A
Toxaphene	ND		ug/kg	28.5	7.97	A
cis-Chlordane	ND		ug/kg	1.90	0.529	A
trans-Chlordane	ND		ug/kg	1.90	0.501	A
Chlordane	ND		ug/kg	12.3	5.03	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 04/08/19 11:22
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 04/05/19 23:12
Cleanup Method: EPA 3620B
Cleanup Date: 04/07/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1223716-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	98		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/08/19 12:39
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 04/05/19 21:32

Methylation Date: 04/06/19 21:12

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 02 Batch: WG1223735-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.09	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.36	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	70		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1223716-2 WG1223716-3									
Delta-BHC	75		78		30-150	4		30	A
Lindane	76		78		30-150	3		30	A
Alpha-BHC	77		82		30-150	6		30	A
Beta-BHC	79		77		30-150	3		30	A
Heptachlor	85		86		30-150	1		30	A
Aldrin	79		80		30-150	1		30	A
Heptachlor epoxide	95		89		30-150	7		30	A
Endrin	84		87		30-150	4		30	A
Endrin aldehyde	55		60		30-150	9		30	A
Endrin ketone	69		75		30-150	8		30	A
Dieldrin	81		83		30-150	2		30	A
4,4'-DDE	72		77		30-150	7		30	A
4,4'-DDD	77		77		30-150	0		30	A
4,4'-DDT	81		83		30-150	2		30	A
Endosulfan I	75		77		30-150	3		30	A
Endosulfan II	74		78		30-150	5		30	A
Endosulfan sulfate	58		63		30-150	8		30	A
Methoxychlor	76		75		30-150	1		30	A
cis-Chlordane	66		68		30-150	3		30	A
trans-Chlordane	72		70		30-150	3		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1223716-2 WG1223716-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	78		80		30-150	B
Decachlorobiphenyl	103		109		30-150	B
2,4,5,6-Tetrachloro-m-xylene	77		78		30-150	A
Decachlorobiphenyl	95		98		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1223735-2 WG1223735-3									
2,4-D	89		89		30-150	0		30	A
2,4,5-T	77		79		30-150	3		30	A
2,4,5-TP (Silvex)	79		82		30-150	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	77		80		30-150	A
DCAA	71		74		30-150	B

METALS

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-02
 Client ID: REUSE03_COMP01
 Sample Location: NY, NY

Date Collected: 04/05/19 11:18
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2260		mg/kg	8.33	2.25	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.17	0.317	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Arsenic, Total	0.967		mg/kg	0.833	0.173	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Barium, Total	31.0		mg/kg	0.833	0.145	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Beryllium, Total	0.125	J	mg/kg	0.417	0.028	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Cadmium, Total	0.108	J	mg/kg	0.833	0.082	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Calcium, Total	4020		mg/kg	8.33	2.92	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Chromium, Total	5.71		mg/kg	0.833	0.080	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Cobalt, Total	3.12		mg/kg	1.67	0.138	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Copper, Total	10.5		mg/kg	0.833	0.215	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Iron, Total	5490		mg/kg	4.17	0.752	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Lead, Total	52.6		mg/kg	4.17	0.223	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Magnesium, Total	1490		mg/kg	8.33	1.28	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Manganese, Total	262		mg/kg	0.833	0.132	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Mercury, Total	0.032	J	mg/kg	0.067	0.014	1	04/06/19 06:20	04/06/19 12:23	EPA 7471B	1,7471B	BV
Nickel, Total	8.04		mg/kg	2.08	0.202	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Potassium, Total	502		mg/kg	208	12.0	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.67	0.215	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.833	0.236	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Sodium, Total	90.4	J	mg/kg	167	2.62	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.67	0.262	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Vanadium, Total	7.68		mg/kg	0.833	0.169	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Zinc, Total	22.9		mg/kg	4.17	0.244	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.5	J	mg/kg	0.86	0.86	1		04/08/19 09:33	NA	107,-	



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

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): 02 Batch: WG1223754-1									
Mercury, Total	ND	mg/kg	0.083	0.018	1	04/06/19 06:20	04/06/19 11:47	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 02 Batch: WG1223761-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Antimony, Total	ND	mg/kg	2.00	0.152	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Barium, Total	ND	mg/kg	0.400	0.070	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Calcium, Total	ND	mg/kg	4.00	1.40	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Chromium, Total	ND	mg/kg	0.400	0.038	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Copper, Total	ND	mg/kg	0.400	0.103	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Iron, Total	0.544	J	mg/kg	2.00	0.361	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Manganese, Total	ND	mg/kg	0.400	0.064	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Nickel, Total	ND	mg/kg	1.00	0.097	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Potassium, Total	ND	mg/kg	100	5.76	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Selenium, Total	ND	mg/kg	0.800	0.103	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Silver, Total	ND	mg/kg	0.400	0.113	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Sodium, Total	ND	mg/kg	80.0	1.26	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Thallium, Total	ND	mg/kg	0.800	0.126	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	
Zinc, Total	ND	mg/kg	2.00	0.117	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC	

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1223754-2 SRM Lot Number: D101-540								
Mercury, Total	96		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1223761-2 SRM Lot Number: D101-540					
Aluminum, Total	74	-	50-151	-	
Antimony, Total	156	-	3-196	-	
Arsenic, Total	104	-	83-117	-	
Barium, Total	97	-	83-118	-	
Beryllium, Total	100	-	83-117	-	
Cadmium, Total	98	-	83-117	-	
Calcium, Total	97	-	81-119	-	
Chromium, Total	99	-	81-118	-	
Cobalt, Total	101	-	84-116	-	
Copper, Total	101	-	83-116	-	
Iron, Total	89	-	62-138	-	
Lead, Total	98	-	83-117	-	
Magnesium, Total	86	-	76-124	-	
Manganese, Total	96	-	82-118	-	
Nickel, Total	98	-	82-117	-	
Potassium, Total	90	-	71-130	-	
Selenium, Total	105	-	79-121	-	
Silver, Total	98	-	80-120	-	
Sodium, Total	104	-	72-127	-	
Thallium, Total	101	-	81-119	-	
Vanadium, Total	95	-	79-121	-	

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1223761-2 SRM Lot Number: D101-540					
Zinc, Total	100	-	81-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1223754-3 QC Sample: L1913747-01 Client ID: MS Sample												
Mercury, Total	0.761	0.183	0.931	93	-	-	-	-	80-120	-	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1223761-3 QC Sample: L1913801-02 Client ID: REUSE03_COMP01									
Aluminum, Total	2260	168	2520	155	Q	-	75-125	-	20
Antimony, Total	ND	41.9	39.7	95		-	75-125	-	20
Arsenic, Total	0.967	10.1	11.5	105		-	75-125	-	20
Barium, Total	31.0	168	198	100		-	75-125	-	20
Beryllium, Total	0.125J	4.19	4.29	102		-	75-125	-	20
Cadmium, Total	0.108J	4.28	4.41	103		-	75-125	-	20
Calcium, Total	4020	838	4750	87		-	75-125	-	20
Chromium, Total	5.71	16.8	22.6	101		-	75-125	-	20
Cobalt, Total	3.12	41.9	43.2	96		-	75-125	-	20
Copper, Total	10.5	21	30.8	97		-	75-125	-	20
Iron, Total	5490	83.8	5130	0	Q	-	75-125	-	20
Lead, Total	52.6	42.8	65.4	30	Q	-	75-125	-	20
Magnesium, Total	1490	838	2220	87		-	75-125	-	20
Manganese, Total	262	41.9	254	0	Q	-	75-125	-	20
Nickel, Total	8.04	41.9	46.0	90		-	75-125	-	20
Potassium, Total	502	838	1400	107		-	75-125	-	20
Selenium, Total	ND	10.1	10.0	99		-	75-125	-	20
Silver, Total	ND	25.2	25.0	99		-	75-125	-	20
Sodium, Total	90.4J	838	977	116		-	75-125	-	20
Thallium, Total	ND	10.1	9.84	98		-	75-125	-	20
Vanadium, Total	7.68	41.9	50.3	102		-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1223761-3 QC Sample: L1913801-02 Client ID: REUSE03_COMP01									
Zinc, Total	22.9	41.9	62.0	93	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1223754-4 QC Sample: L1913747-01 Client ID: DUP Sample						
Mercury, Total	0.761	1.11	mg/kg	37	Q	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1223761-4 QC Sample: L1913801-02 Client ID: REUSE03_COMP01					
Aluminum, Total	2260	2340	mg/kg	3	20
Antimony, Total	ND	ND	mg/kg	NC	20
Arsenic, Total	0.967	1.02	mg/kg	5	20
Barium, Total	31.0	30.5	mg/kg	2	20
Beryllium, Total	0.125J	0.124J	mg/kg	NC	20
Cadmium, Total	0.108J	0.099J	mg/kg	NC	20
Calcium, Total	4020	4840	mg/kg	19	20
Chromium, Total	5.71	5.32	mg/kg	7	20
Cobalt, Total	3.12	2.52	mg/kg	21	Q 20
Copper, Total	10.5	10.2	mg/kg	3	20
Iron, Total	5490	5310	mg/kg	3	20
Lead, Total	52.6	28.9	mg/kg	58	Q 20
Magnesium, Total	1490	1110	mg/kg	29	Q 20
Manganese, Total	262	231	mg/kg	13	20
Nickel, Total	8.04	6.47	mg/kg	22	Q 20
Potassium, Total	502	555	mg/kg	10	20
Selenium, Total	ND	ND	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	90.4J	80.6J	mg/kg	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1223761-4 QC Sample: L1913801-02 Client ID: REUSE03_COMP01					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	7.68	7.25	mg/kg	6	20
Zinc, Total	22.9	24.0	mg/kg	5	20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND STREET**Lab Number:** L1913801**Project Number:** 170500202**Report Date:** 04/08/19**SAMPLE RESULTS**

Lab ID: L1913801-01

Date Collected: 04/05/19 11:15

Client ID: REUSE03_GRAB01

Date Received: 04/05/19

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.1		%	0.100	NA	1	-	04/06/19 04:17	121,2540G	YA



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-02
Client ID: REUSE03_COMP01
Sample Location: NY, NY

Date Collected: 04/05/19 11:18
Date Received: 04/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.6		%	0.100	NA	1	-	04/06/19 04:17	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	04/07/19 15:55	04/08/19 11:10	1,9010C/9012B	LH
Chromium, Hexavalent	0.171	J	mg/kg	0.855	0.171	1	04/08/19 00:58	04/08/19 09:33	1,7196A	NH



Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

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): 02 Batch: WG1223991-1										
Cyanide, Total	ND		mg/kg	1.0	0.21	1	04/07/19 15:55	04/08/19 10:59	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1224060-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	04/08/19 00:58	04/08/19 09:33	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1223991-2 WG1223991-3								
Cyanide, Total	92		77	Q	80-120	25		35
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1224060-2								
Chromium, Hexavalent	94		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1223991-4 WG1223991-5 QC Sample: L1913801-02 Client ID: REUSE03_COMP01												
Cyanide, Total	ND	10	8.2	80		8.7	88		75-125	6		35
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1224060-4 QC Sample: L1913801-02 Client ID: REUSE03_COMP01												
Chromium, Hexavalent	0.171J	1320	1300	98		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1223737-1 QC Sample: L1913770-01 Client ID: DUP Sample						
Solids, Total	78.7	81.1	%	3		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1224060-6 QC Sample: L1913801-02 Client ID: REUSE03_COMP01						
Chromium, Hexavalent	0.171J	0.171J	mg/kg	NC		20

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Serial_No:04081916:33
Lab Number: L1913801
Report Date: 04/08/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1913801-01A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1913801-01B	Vial water preserved	A	NA		2.7	Y	Absent	06-APR-19 01:19	NYTCL-8260HLW(14)
L1913801-01C	Vial water preserved	A	NA		2.7	Y	Absent	06-APR-19 01:19	NYTCL-8260HLW(14)
L1913801-01D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1913801-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	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)
L1913801-02B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1913801-02C	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

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Report Date: 04/08/19

- 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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 <p>NEW YORK CHAIN OF CUSTODY</p> <p>Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193</p> <p>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288</p>		<p>Service Centers</p> <p>Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105</p>		<p>Page 1 of 1</p>		<p>Date Rec'd in Lab: 4/5/19</p>		<p>ALPHA Job #: L1915801</p>																																																																																																													
		<p>Project Information</p> <p>Project Name: 300 West. 122nd Street</p> <p>Project Location: NY, NY</p> <p>Project #: 170500202</p> <p>(Use Project name as Project #) <input type="checkbox"/></p> <p>Project Manager: Greg Wyka</p> <p>ALPHAQuote #:</p> <p>Turn-Around Time:</p> <p>Standard <input type="checkbox"/> Due Date: # of Days: 2</p> <p>Rush (only if pre approved) <input checked="" type="checkbox"/></p>				<p>Deliverables</p> <p><input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B</p> <p><input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File)</p> <p><input type="checkbox"/> Other</p>		<p>Billing Information</p> <p><input checked="" type="checkbox"/> Same as Client Info</p> <p>PO #</p>																																																																																																													
<p>Client Information</p> <p>Client: LANGAN, DPC</p> <p>Address: 21 Penn Plaza, 360 W. 31st St. NY, NY</p> <p>Phone: 212-479-5400</p> <p>Fax:</p> <p>Email: G.WYKA@LANGAN.COM</p>				<p>Regulatory Requirement</p> <p><input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375</p> <p><input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51</p> <p><input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other: TCL</p> <p><input type="checkbox"/> NY Unrestricted Use</p> <p><input type="checkbox"/> NYC Sewer Discharge</p>				<p>Disposal Site Information</p> <p>Please identify below location of applicable disposal facilities.</p> <p>Disposal Facility:</p> <p><input type="checkbox"/> NJ <input type="checkbox"/> NY</p> <p><input type="checkbox"/> Other:</p>																																																																																																													
<p>These samples have been previously analyzed by Alpha <input type="checkbox"/></p> <p>Other project specific requirements/comments:</p> <p>Please specify Metals or TAL.</p>						<p>ANALYSIS</p> <p>TCL/Part 375 VOLCS</p> <p>SWOCs</p> <p>PCBs</p> <p>Pest/Herb</p> <p>TAL Metals + total cyanide + hex/tri chroming</p>			<p>Sample Filtration</p> <p><input type="checkbox"/> Done</p> <p><input type="checkbox"/> Lab to do</p> <p>Preservation</p> <p><input type="checkbox"/> Lab to do</p> <p>(Please Specify below)</p>		<p>T o t a l B o t t l e</p>																																																																																																										
<table border="1"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">ANALYSIS</th> <th rowspan="2">Sample Filtration</th> <th rowspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>15801-01</td> <td>REUSE03-GRAB01</td> <td>4/5/19</td> <td>1115</td> <td>SOIL</td> <td>AS</td> <td>X</td> <td>X</td> <td>(3) VBA, (1) Plastic</td> </tr> <tr> <td>02</td> <td>REUSE03-COMP01</td> <td>↓</td> <td>1118</td> <td>↓</td> <td>↓</td> <td>X</td> <td>X</td> <td>(1) 4oz, (1) 8oz, (1) 16oz A glass</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>						ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix		Sampler's Initials	ANALYSIS	Sample Filtration	Sample Specific Comments	Date	Time	15801-01	REUSE03-GRAB01	4/5/19	1115	SOIL	AS	X	X	(3) VBA, (1) Plastic	02	REUSE03-COMP01	↓	1118	↓	↓	X	X	(1) 4oz, (1) 8oz, (1) 16oz A glass																																																																																		<p>Sample Specific Comments</p>
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<p>Preservative Code:</p> <p>A = None B = HCl C = HNO₃ D = H₂SO₄ E = NaOH F = MeOH G = NaHSO₄ H = Na₂S₂O₃ K/E = Zn Ac/NaOH O = Other</p>		<p>Container Code</p> <p>P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle</p>		<p>Westboro: Certification No: MA935</p> <p>Mansfield: Certification No: MA015</p>		<p>Container Type</p> <p>Preservative</p>		<p>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.)</p>																																																																																																													
<p>Relinquished By:</p> <p><i>[Signature]</i></p>		<p>Date/Time</p> <p>4/5/19 1370</p> <p>4/5/19 17X</p>		<p>Received By:</p> <p><i>[Signature]</i></p>		<p>Date/Time</p> <p>4/5/19 1330</p> <p>4/5/19 2250</p>																																																																																																															



ANALYTICAL REPORT

Lab Number:	L1914743
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND STREET
Project Number:	170500202
Report Date:	04/15/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1914743-01	REUSE04_GRAB01	SOIL	NY, NY	04/11/19 12:30	04/11/19
L1914743-02	REUSE04_COMP01	SOIL	NY, NY	04/11/19 12:35	04/11/19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

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.

Volatile Organics

The WG1225834-12 Method Blank, associated with L1914743-01, has a concentration above the reporting limit for bromomethane. Since the sample was non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

Total Metals

L1914743-02: 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.

The WG1226074-1 Method Blank, associated with L1914743-02, has concentrations above the reporting limits for calcium and iron. Since the associated sample concentrations are greater than 10x the blank concentration for this analyte, no corrective action is required.

Cyanide, Total

The WG1225893-2/-3 LCS/LCSD recoveries (54%/56%), associated with L1914743-02, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 04/15/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-01
 Client ID: REUSE04_GRAB01
 Sample Location: NY, NY

Date Collected: 04/11/19 12:30
 Date Received: 04/11/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/14/19 19:11
 Analyst: MV
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.0	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.38	1
Tetrachloroethene	ND		ug/kg	0.70	0.28	1
Chlorobenzene	ND		ug/kg	0.70	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.98	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.70	0.24	1
Bromodichloromethane	ND		ug/kg	0.70	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.70	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.70	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.70	0.22	1
Bromoform	ND		ug/kg	5.6	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.70	0.23	1
Benzene	ND		ug/kg	0.70	0.23	1
Toluene	ND		ug/kg	1.4	0.76	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.6	1.3	1
Bromomethane	ND		ug/kg	2.8	0.82	1
Vinyl chloride	ND		ug/kg	1.4	0.47	1
Chloroethane	ND		ug/kg	2.8	0.64	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1

Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-01
 Client ID: REUSE04_GRAB01
 Sample Location: NY, NY

Date Collected: 04/11/19 12:30
 Date Received: 04/11/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.70	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.79	1
o-Xylene	ND		ug/kg	1.4	0.41	1
Xylenes, Total	ND		ug/kg	1.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.25	1
Dibromomethane	ND		ug/kg	2.8	0.34	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	41		ug/kg	14	6.8	1
Carbon disulfide	ND		ug/kg	14	6.4	1
2-Butanone	ND		ug/kg	14	3.1	1
Vinyl acetate	ND		ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	0.18	1
2-Hexanone	ND		ug/kg	14	1.7	1
Bromochloromethane	ND		ug/kg	2.8	0.29	1
2,2-Dichloropropane	ND		ug/kg	2.8	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.39	1
1,3-Dichloropropane	ND		ug/kg	2.8	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.70	0.18	1
Bromobenzene	ND		ug/kg	2.8	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.8	0.17	1
o-Chlorotoluene	ND		ug/kg	2.8	0.27	1
p-Chlorotoluene	ND		ug/kg	2.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.24	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.6	0.92	1
Acrylonitrile	ND		ug/kg	5.6	1.6	1
Tert-Butyl Alcohol	12	J	ug/kg	28	7.2	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-01
 Client ID: REUSE04_GRAB01
 Sample Location: NY, NY

Date Collected: 04/11/19 12:30
 Date Received: 04/11/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.45	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.47	1
Methyl Acetate	ND		ug/kg	5.6	1.3	1
Acrolein	ND		ug/kg	35	7.9	1
Cyclohexane	ND		ug/kg	14	0.76	1
1,4-Dioxane	ND		ug/kg	110	49.	1
Freon-113	ND		ug/kg	5.6	0.98	1
p-Diethylbenzene	ND		ug/kg	2.8	0.25	1
p-Ethyltoluene	ND		ug/kg	2.8	0.54	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.8	0.27	1
Ethyl ether	ND		ug/kg	2.8	0.48	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.0	2.0	1
Methyl cyclohexane	ND		ug/kg	5.6	0.85	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	111		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/14/19 16:39
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1225834-12					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	2.0		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/14/19 16:39
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1225834-12					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 04/14/19 16:39
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1225834-12					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 04/14/19 16:39
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1225834-12					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1225834-10 WG1225834-11								
Methylene chloride	78		81		70-130	4		30
1,1-Dichloroethane	90		92		70-130	2		30
Chloroform	94		95		70-130	1		30
Carbon tetrachloride	99		100		70-130	1		30
1,2-Dichloropropane	86		86		70-130	0		30
Dibromochloromethane	92		93		70-130	1		30
1,1,2-Trichloroethane	88		89		70-130	1		30
Tetrachloroethene	87		86		70-130	1		30
Chlorobenzene	84		87		70-130	4		30
Trichlorofluoromethane	103		102		70-139	1		30
1,2-Dichloroethane	98		100		70-130	2		30
1,1,1-Trichloroethane	96		97		70-130	1		30
Bromodichloromethane	93		94		70-130	1		30
trans-1,3-Dichloropropene	92		94		70-130	2		30
cis-1,3-Dichloropropene	87		87		70-130	0		30
1,1-Dichloropropene	87		87		70-130	0		30
Bromoform	92		93		70-130	1		30
1,1,2,2-Tetrachloroethane	84		85		70-130	1		30
Benzene	84		84		70-130	0		30
Toluene	86		87		70-130	1		30
Ethylbenzene	87		88		70-130	1		30
Chloromethane	77		77		52-130	0		30
Bromomethane	139		138		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1225834-10 WG1225834-11								
Vinyl chloride	83		82		67-130	1		30
Chloroethane	96		92		50-151	4		30
1,1-Dichloroethene	81		83		65-135	2		30
trans-1,2-Dichloroethene	84		85		70-130	1		30
Trichloroethene	83		84		70-130	1		30
1,2-Dichlorobenzene	86		85		70-130	1		30
1,3-Dichlorobenzene	84		86		70-130	2		30
1,4-Dichlorobenzene	84		84		70-130	0		30
Methyl tert butyl ether	93		93		66-130	0		30
p/m-Xylene	84		85		70-130	1		30
o-Xylene	85		86		70-130	1		30
cis-1,2-Dichloroethene	84		86		70-130	2		30
Dibromomethane	90		91		70-130	1		30
Styrene	83		85		70-130	2		30
Dichlorodifluoromethane	69		69		30-146	0		30
Acetone	116		103		54-140	12		30
Carbon disulfide	82		81		59-130	1		30
2-Butanone	91		95		70-130	4		30
Vinyl acetate	93		94		70-130	1		30
4-Methyl-2-pentanone	88		88		70-130	0		30
1,2,3-Trichloropropane	91		91		68-130	0		30
2-Hexanone	88		88		70-130	0		30
Bromochloromethane	88		88		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1225834-10 WG1225834-11								
2,2-Dichloropropane	96		96		70-130	0		30
1,2-Dibromoethane	87		88		70-130	1		30
1,3-Dichloropropane	88		89		69-130	1		30
1,1,1,2-Tetrachloroethane	90		91		70-130	1		30
Bromobenzene	86		85		70-130	1		30
n-Butylbenzene	84		84		70-130	0		30
sec-Butylbenzene	83		83		70-130	0		30
tert-Butylbenzene	84		84		70-130	0		30
o-Chlorotoluene	98		100		70-130	2		30
p-Chlorotoluene	85		87		70-130	2		30
1,2-Dibromo-3-chloropropane	87		88		68-130	1		30
Hexachlorobutadiene	87		86		67-130	1		30
Isopropylbenzene	85		85		70-130	0		30
p-Isopropyltoluene	84		84		70-130	0		30
Naphthalene	84		84		70-130	0		30
Acrylonitrile	92		95		70-130	3		30
Tert-Butyl Alcohol	94		94		70-130	0		30
n-Propylbenzene	84		85		70-130	1		30
1,2,3-Trichlorobenzene	88		85		70-130	3		30
1,2,4-Trichlorobenzene	86		86		70-130	0		30
1,3,5-Trimethylbenzene	85		86		70-130	1		30
1,2,4-Trimethylbenzene	85		85		70-130	0		30
Methyl Acetate	88		88		51-146	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1225834-10 WG1225834-11								
Acrolein	89		88		70-130	1		30
Cyclohexane	80		82		59-142	2		30
1,4-Dioxane	92		95		65-136	3		30
Freon-113	86		87		50-139	1		30
p-Diethylbenzene	82		82		70-130	0		30
p-Ethyltoluene	85		85		70-130	0		30
1,2,4,5-Tetramethylbenzene	83		82		70-130	1		30
Ethyl ether	87		89		67-130	2		30
trans-1,4-Dichloro-2-butene	93		94		70-130	1		30
Methyl cyclohexane	79		80		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	118		118		70-130
Toluene-d8	102		104		70-130
4-Bromofluorobenzene	102		101		70-130
Dibromofluoromethane	107		107		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-02
 Client ID: REUSE04_COMP01
 Sample Location: NY, NY

Date Collected: 04/11/19 12:35
 Date Received: 04/11/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/14/19 15:02
 Analyst: SZ
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 04/13/19 00:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Benzidine	ND		ug/kg	580	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	31.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	46.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Azobenzene	ND		ug/kg	180	17.	1
Fluoranthene	62	J	ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	60.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-02
Client ID: REUSE04_COMP01
Sample Location: NY, NY

Date Collected: 04/11/19 12:35
Date Received: 04/11/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	40	J	ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	45	J	ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	32	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	20	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	26	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	58	J	ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	72.	1
Dibenzofuran	ND		ug/kg	180	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
n-Nitrosodimethylamine	ND		ug/kg	350	34.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-02
Client ID: REUSE04_COMP01
Sample Location: NY, NY

Date Collected: 04/11/19 12:35
Date Received: 04/11/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
Atrazine	ND		ug/kg	140	61.	1
Benzaldehyde	ND		ug/kg	230	47.	1
Caprolactam	ND		ug/kg	180	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	73		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/14/19 11:36
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/12/19 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1225813-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	550	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	100	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/14/19 11:36
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/12/19 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1225813-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	69.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	32.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 04/14/19 11:36
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/12/19 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1225813-1					
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	79		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1225813-2 WG1225813-3								
Acenaphthene	67		81		31-137	19		50
Benzidine	24		23		10-66	4		50
1,2,4-Trichlorobenzene	60		72		38-107	18		50
Hexachlorobenzene	67		83		40-140	21		50
Bis(2-chloroethyl)ether	65		78		40-140	18		50
2-Chloronaphthalene	68		83		40-140	20		50
1,2-Dichlorobenzene	61		72		40-140	17		50
1,3-Dichlorobenzene	60		72		40-140	18		50
1,4-Dichlorobenzene	61		73		28-104	18		50
3,3'-Dichlorobenzidine	47		50		40-140	6		50
2,4-Dinitrotoluene	77		92		40-132	18		50
2,6-Dinitrotoluene	73		88		40-140	19		50
Azobenzene	79		96		40-140	19		50
Fluoranthene	66		80		40-140	19		50
4-Chlorophenyl phenyl ether	67		83		40-140	21		50
4-Bromophenyl phenyl ether	69		85		40-140	21		50
Bis(2-chloroisopropyl)ether	72		86		40-140	18		50
Bis(2-chloroethoxy)methane	67		83		40-117	21		50
Hexachlorobutadiene	65		79		40-140	19		50
Hexachlorocyclopentadiene	54		67		40-140	21		50
Hexachloroethane	64		76		40-140	17		50
Isophorone	68		82		40-140	19		50
Naphthalene	63		75		40-140	17		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1225813-2 WG1225813-3								
Nitrobenzene	70		83		40-140	17		50
NDPA/DPA	72		86		36-157	18		50
n-Nitrosodi-n-propylamine	70		86		32-121	21		50
Bis(2-ethylhexyl)phthalate	79		96		40-140	19		50
Butyl benzyl phthalate	70		86		40-140	21		50
Di-n-butylphthalate	68		82		40-140	19		50
Di-n-octylphthalate	83		101		40-140	20		50
Diethyl phthalate	73		89		40-140	20		50
Dimethyl phthalate	78		94		40-140	19		50
Benzo(a)anthracene	77		90		40-140	16		50
Benzo(a)pyrene	82		98		40-140	18		50
Benzo(b)fluoranthene	80		93		40-140	15		50
Benzo(k)fluoranthene	75		91		40-140	19		50
Chrysene	73		87		40-140	18		50
Acenaphthylene	72		87		40-140	19		50
Anthracene	65		76		40-140	16		50
Benzo(ghi)perylene	66		78		40-140	17		50
Fluorene	72		86		40-140	18		50
Phenanthrene	64		77		40-140	18		50
Dibenzo(a,h)anthracene	64		76		40-140	17		50
Indeno(1,2,3-cd)pyrene	68		82		40-140	19		50
Pyrene	65		79		35-142	19		50
Biphenyl	68		82		54-104	19		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1225813-2 WG1225813-3								
4-Chloroaniline	86		95		40-140	10		50
2-Nitroaniline	71		88		47-134	21		50
3-Nitroaniline	60		67		26-129	11		50
4-Nitroaniline	73		88		41-125	19		50
Dibenzofuran	71		85		40-140	18		50
2-Methylnaphthalene	63		76		40-140	19		50
1,2,4,5-Tetrachlorobenzene	69		86		40-117	22		50
Acetophenone	73		88		14-144	19		50
n-Nitrosodimethylamine	64		78		22-100	20		50
2,4,6-Trichlorophenol	74		89		30-130	18		50
p-Chloro-m-cresol	74		90		26-103	20		50
2-Chlorophenol	64		76		25-102	17		50
2,4-Dichlorophenol	67		86		30-130	25		50
2,4-Dimethylphenol	70		85		30-130	19		50
2-Nitrophenol	64		77		30-130	18		50
4-Nitrophenol	86		107		11-114	22		50
2,4-Dinitrophenol	54		66		4-130	20		50
4,6-Dinitro-o-cresol	74		90		10-130	20		50
Pentachlorophenol	66		86		17-109	26		50
Phenol	66		82		26-90	22		50
2-Methylphenol	65		80		30-130	21		50
3-Methylphenol/4-Methylphenol	68		84		30-130	21		50
2,4,5-Trichlorophenol	72		94		30-130	27		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1225813-2 WG1225813-3								
Benzoic Acid	43		49		10-110	13		50
Benzyl Alcohol	75		90		40-140	18		50
Carbazole	67		80		54-128	18		50
Atrazine	84		103		40-140	20		50
Benzaldehyde	70		80		40-140	13		50
Caprolactam	94		118		15-130	23		50
2,3,4,6-Tetrachlorophenol	68		87		40-140	25		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	69		83		25-120
Phenol-d6	70		85		10-120
Nitrobenzene-d5	68		82		23-120
2-Fluorobiphenyl	66		80		30-120
2,4,6-Tribromophenol	72		92		10-136
4-Terphenyl-d14	62		74		18-120

PCBS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-02
Client ID: REUSE04_COMP01
Sample Location: NY, NY

Date Collected: 04/11/19 12:35
Date Received: 04/11/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/14/19 18:32
Analyst: HT
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/13/19 02:23
Cleanup Method: EPA 3665A
Cleanup Date: 04/14/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/14/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.4	3.05	1	A
Aroclor 1221	ND		ug/kg	34.4	3.44	1	A
Aroclor 1232	ND		ug/kg	34.4	7.29	1	A
Aroclor 1242	ND		ug/kg	34.4	4.63	1	A
Aroclor 1248	ND		ug/kg	34.4	5.16	1	A
Aroclor 1254	ND		ug/kg	34.4	3.76	1	A
Aroclor 1260	ND		ug/kg	34.4	6.35	1	A
Aroclor 1262	ND		ug/kg	34.4	4.36	1	A
Aroclor 1268	ND		ug/kg	34.4	3.56	1	A
PCBs, Total	ND		ug/kg	34.4	3.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/13/19 13:16
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 04/12/19 09:52
Cleanup Method: EPA 3665A
Cleanup Date: 04/12/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02 Batch: WG1225809-1						
Aroclor 1016	ND		ug/kg	32.3	2.87	A
Aroclor 1221	ND		ug/kg	32.3	3.24	A
Aroclor 1232	ND		ug/kg	32.3	6.85	A
Aroclor 1242	ND		ug/kg	32.3	4.36	A
Aroclor 1248	ND		ug/kg	32.3	4.85	A
Aroclor 1254	ND		ug/kg	32.3	3.54	A
Aroclor 1260	ND		ug/kg	32.3	5.97	A
Aroclor 1262	ND		ug/kg	32.3	4.10	A
Aroclor 1268	ND		ug/kg	32.3	3.35	A
PCBs, Total	ND		ug/kg	32.3	2.87	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	60		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02 Batch: WG1225809-2 WG1225809-3									
Aroclor 1016	85		82		40-140	4		50	A
Aroclor 1260	66		66		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		78		30-150	A
Decachlorobiphenyl	58		58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		68		30-150	B
Decachlorobiphenyl	62		58		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-02
Client ID: REUSE04_COMP01
Sample Location: NY, NY

Date Collected: 04/11/19 12:35
Date Received: 04/11/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/14/19 19:27
Analyst: DGM
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/12/19 22:21
Cleanup Method: EPA 3620B
Cleanup Date: 04/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.330	1	A
Lindane	ND		ug/kg	0.701	0.314	1	A
Alpha-BHC	ND		ug/kg	0.701	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.638	1	A
Heptachlor	ND		ug/kg	0.842	0.377	1	A
Aldrin	ND		ug/kg	1.68	0.593	1	A
Heptachlor epoxide	ND		ug/kg	3.16	0.947	1	A
Endrin	ND		ug/kg	0.701	0.288	1	A
Endrin aldehyde	ND		ug/kg	2.10	0.736	1	A
Endrin ketone	ND		ug/kg	1.68	0.433	1	A
Dieldrin	ND		ug/kg	1.05	0.526	1	A
4,4'-DDE	ND		ug/kg	1.68	0.389	1	A
4,4'-DDD	ND		ug/kg	1.68	0.600	1	A
4,4'-DDT	ND		ug/kg	3.16	1.35	1	A
Endosulfan I	ND		ug/kg	1.68	0.398	1	A
Endosulfan II	ND		ug/kg	1.68	0.562	1	A
Endosulfan sulfate	ND		ug/kg	0.701	0.334	1	A
Methoxychlor	ND		ug/kg	3.16	0.982	1	A
Toxaphene	ND		ug/kg	31.6	8.84	1	A
cis-Chlordane	ND		ug/kg	2.10	0.586	1	A
trans-Chlordane	ND		ug/kg	2.10	0.556	1	A
Chlordane	ND		ug/kg	13.7	5.58	1	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-02
 Client ID: REUSE04_COMP01
 Sample Location: NY, NY

Date Collected: 04/11/19 12:35
 Date Received: 04/11/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	82		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	75		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-02
 Client ID: REUSE04_COMP01
 Sample Location: NY, NY

Date Collected: 04/11/19 12:35
 Date Received: 04/11/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/14/19 17:04
 Analyst: DGM
 Percent Solids: 93%
 Methylation Date: 04/13/19 20:02

Extraction Method: EPA 8151A
 Extraction Date: 04/13/19 02:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	175	11.0	1	A
2,4,5-T	ND		ug/kg	175	5.44	1	A
2,4,5-TP (Silvex)	ND		ug/kg	175	4.66	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	74		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 04/14/19 17:32
 Analyst: DGM

Extraction Method: EPA 3546
 Extraction Date: 04/12/19 22:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1226036-1						
Delta-BHC	ND		ug/kg	1.55	0.303	A
Lindane	ND		ug/kg	0.645	0.288	A
Alpha-BHC	ND		ug/kg	0.645	0.183	A
Beta-BHC	ND		ug/kg	1.55	0.587	A
Heptachlor	ND		ug/kg	0.774	0.347	A
Aldrin	ND		ug/kg	1.55	0.545	A
Heptachlor epoxide	ND		ug/kg	2.90	0.870	A
Endrin	ND		ug/kg	0.645	0.264	A
Endrin aldehyde	ND		ug/kg	1.93	0.677	A
Endrin ketone	ND		ug/kg	1.55	0.398	A
Dieldrin	ND		ug/kg	0.967	0.484	A
4,4'-DDE	ND		ug/kg	1.55	0.358	A
4,4'-DDD	ND		ug/kg	1.55	0.552	A
4,4'-DDT	ND		ug/kg	2.90	1.24	A
Endosulfan I	ND		ug/kg	1.55	0.366	A
Endosulfan II	ND		ug/kg	1.55	0.517	A
Endosulfan sulfate	ND		ug/kg	0.645	0.307	A
Methoxychlor	ND		ug/kg	2.90	0.903	A
Toxaphene	ND		ug/kg	29.0	8.12	A
cis-Chlordane	ND		ug/kg	1.93	0.539	A
trans-Chlordane	ND		ug/kg	1.93	0.511	A
Chlordane	ND		ug/kg	12.6	5.12	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 04/14/19 17:32
Analyst: DGM

Extraction Method: EPA 3546
Extraction Date: 04/12/19 22:21
Cleanup Method: EPA 3620B
Cleanup Date: 04/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1226036-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	84		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 04/14/19 19:10
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 04/13/19 02:57

Methylation Date: 04/13/19 20:02

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 02 Batch: WG1226062-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.31	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	61		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1226036-2 WG1226036-3									
Delta-BHC	105		107		30-150	2		30	A
Lindane	100		104		30-150	4		30	A
Alpha-BHC	104		107		30-150	3		30	A
Beta-BHC	94		91		30-150	3		30	A
Heptachlor	97		102		30-150	5		30	A
Aldrin	99		107		30-150	8		30	A
Heptachlor epoxide	103		104		30-150	1		30	A
Endrin	107		110		30-150	3		30	A
Endrin aldehyde	71		82		30-150	14		30	A
Endrin ketone	92		96		30-150	4		30	A
Dieldrin	105		107		30-150	2		30	A
4,4'-DDE	97		105		30-150	8		30	A
4,4'-DDD	95		100		30-150	5		30	A
4,4'-DDT	109		112		30-150	3		30	A
Endosulfan I	91		96		30-150	5		30	A
Endosulfan II	93		96		30-150	3		30	A
Endosulfan sulfate	77		86		30-150	11		30	A
Methoxychlor	94		99		30-150	5		30	A
cis-Chlordane	84		94		30-150	11		30	A
trans-Chlordane	81		93		30-150	14		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1226036-2 WG1226036-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	76		87		30-150	B
Decachlorobiphenyl	98		113		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		84		30-150	A
Decachlorobiphenyl	76		90		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1226062-2 WG1226062-3									
2,4-D	77		81		30-150	5		30	A
2,4,5-T	68		71		30-150	4		30	A
2,4,5-TP (Silvex)	68		75		30-150	10		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	72		80		30-150	A
DCAA	64		70		30-150	B

METALS

Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-02
 Client ID: REUSE04_COMP01
 Sample Location: NY, NY

Date Collected: 04/11/19 12:35
 Date Received: 04/11/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1750		mg/kg	8.45	2.28	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.23	0.321	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Arsenic, Total	0.313	J	mg/kg	0.845	0.176	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Barium, Total	18.1		mg/kg	0.845	0.147	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Beryllium, Total	0.093	J	mg/kg	0.423	0.028	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.845	0.083	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Calcium, Total	1300		mg/kg	8.45	2.96	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Chromium, Total	5.10		mg/kg	0.845	0.081	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Cobalt, Total	1.86		mg/kg	1.69	0.140	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Copper, Total	6.89		mg/kg	0.845	0.218	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Iron, Total	3730		mg/kg	4.23	0.763	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Lead, Total	7.24		mg/kg	4.23	0.226	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Magnesium, Total	1030		mg/kg	8.45	1.30	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Manganese, Total	173		mg/kg	0.845	0.134	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.068	0.014	1	04/13/19 06:00	04/15/19 10:31	EPA 7471B	1,7471B	GD
Nickel, Total	5.27		mg/kg	2.11	0.204	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Potassium, Total	318		mg/kg	211	12.2	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.69	0.218	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.845	0.239	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Sodium, Total	86.6	J	mg/kg	169	2.66	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.69	0.266	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Vanadium, Total	5.75		mg/kg	0.845	0.172	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Zinc, Total	11.1		mg/kg	4.23	0.248	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.1		mg/kg	0.86	0.86	1		04/15/19 11:27	NA	107,-	



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

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): 02 Batch: WG1226074-1										
Aluminum, Total	1.12	J	mg/kg	4.00	1.08	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Calcium, Total	6.12		mg/kg	4.00	1.40	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Chromium, Total	0.112	J	mg/kg	0.400	0.038	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Cobalt, Total	0.088	J	mg/kg	0.800	0.066	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Iron, Total	2.55		mg/kg	2.00	0.361	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Manganese, Total	0.080	J	mg/kg	0.400	0.064	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Nickel, Total	0.460	J	mg/kg	1.00	0.097	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Sodium, Total	2.58	J	mg/kg	80.0	1.26	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC

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): 02 Batch: WG1226085-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	04/13/19 06:00	04/15/19 10:27	1,7471B	GD



Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1226074-2 SRM Lot Number: D101-540								
Aluminum, Total	65		-		50-151	-		
Antimony, Total	127		-		3-196	-		
Arsenic, Total	97		-		83-117	-		
Barium, Total	89		-		83-118	-		
Beryllium, Total	88		-		83-117	-		
Cadmium, Total	90		-		83-117	-		
Calcium, Total	87		-		81-119	-		
Chromium, Total	89		-		81-118	-		
Cobalt, Total	94		-		84-116	-		
Copper, Total	90		-		83-116	-		
Iron, Total	82		-		62-138	-		
Lead, Total	94		-		83-117	-		
Magnesium, Total	79		-		76-124	-		
Manganese, Total	92		-		82-118	-		
Nickel, Total	96		-		82-117	-		
Potassium, Total	79		-		71-130	-		
Selenium, Total	99		-		79-121	-		
Silver, Total	92		-		80-120	-		
Sodium, Total	102		-		72-127	-		
Thallium, Total	92		-		81-119	-		
Vanadium, Total	88		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1226074-2 SRM Lot Number: D101-540					
Zinc, Total	92	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1226085-2 SRM Lot Number: D101-540					
Mercury, Total	123	-	65-135	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1226074-3 QC Sample: L1914347-01 Client ID: MS Sample												
Aluminum, Total	10000	174	9990	0	Q	-	-		75-125	-		20
Antimony, Total	ND	43.6	31.8	73	Q	-	-		75-125	-		20
Arsenic, Total	14.7	10.4	24.8	97		-	-		75-125	-		20
Barium, Total	77.3	174	225	85		-	-		75-125	-		20
Beryllium, Total	0.470	4.36	4.03	82		-	-		75-125	-		20
Cadmium, Total	ND	4.44	3.90	88		-	-		75-125	-		20
Calcium, Total	19500	871	20400	103		-	-		75-125	-		20
Chromium, Total	36.0	17.4	45.7	56	Q	-	-		75-125	-		20
Cobalt, Total	10.7	43.6	45.6	80		-	-		75-125	-		20
Copper, Total	61.5	21.8	65.8	20	Q	-	-		75-125	-		20
Iron, Total	19200	87.1	17600	0	Q	-	-		75-125	-		20
Lead, Total	26.7	44.4	59.4	74	Q	-	-		75-125	-		20
Magnesium, Total	6370	871	6050	0	Q	-	-		75-125	-		20
Manganese, Total	225	43.6	248	53	Q	-	-		75-125	-		20
Nickel, Total	25.0	43.6	57.7	75		-	-		75-125	-		20
Potassium, Total	607	871	1490	101		-	-		75-125	-		20
Selenium, Total	1.42J	10.4	10.9	104		-	-		75-125	-		20
Silver, Total	ND	26.1	24.5	94		-	-		75-125	-		20
Sodium, Total	14900	871	16300	161	Q	-	-		75-125	-		20
Thallium, Total	ND	10.4	8.13	78		-	-		75-125	-		20
Vanadium, Total	50.4	43.6	83.0	75		-	-		75-125	-		20



Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1226074-3 QC Sample: L1914347-01 Client ID: MS Sample									
Zinc, Total	90.3	43.6	117	61	Q	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1226085-3 QC Sample: L1914743-02 Client ID: REUSE04_COMP01									
Mercury, Total	ND	0.135	0.163	120	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1226074-4 QC Sample: L1914347-01 Client ID: DUP Sample						
Calcium, Total	19500	18600	mg/kg	5		20
Magnesium, Total	6370	6600	mg/kg	4		20
Sodium, Total	14900	13800	mg/kg	8		20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1226085-4 QC Sample: L1914743-02 Client ID: REUSE04_COMP01						
Mercury, Total	ND	ND	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-01

Date Collected: 04/11/19 12:30

Client ID: REUSE04_GRAB01

Date Received: 04/11/19

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.2		%	0.100	NA	1	-	04/12/19 13:43	121,2540G	RI



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-02
Client ID: REUSE04_COMP01
Sample Location: NY, NY

Date Collected: 04/11/19 12:35
Date Received: 04/11/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.0		%	0.100	NA	1	-	04/13/19 04:12	121,2540G	YA
Cyanide, Total	ND		mg/kg	0.99	0.21	1	04/12/19 14:00	04/15/19 12:58	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.860	0.172	1	04/15/19 03:06	04/15/19 11:27	1,7196A	NH



Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

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): 02 Batch: WG1225893-1									
Cyanide, Total	ND	mg/kg	0.83	0.18	1	04/12/19 14:00	04/15/19 12:48	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1226343-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	04/15/19 03:06	04/15/19 11:27	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1225893-2 WG1225893-3								
Cyanide, Total	54	Q	56	Q	80-120	6		35
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1226343-2								
Chromium, Hexavalent	97		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1225893-4 WG1225893-5 QC Sample: L1914886-01 Client ID: MS Sample												
Cyanide, Total	ND	10	9.5	92		9.4	91		75-125	1		35
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1226343-4 QC Sample: L1914743-02 Client ID: REUSE04_COMP01												
Chromium, Hexavalent	ND	886	953	108		-	-		75-125	-		20

Lab Duplicate Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1225896-1 QC Sample: L1914943-01 Client ID: DUP Sample						
Solids, Total	75.7	75.5	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1226037-1 QC Sample: L1905555-16 Client ID: DUP Sample						
Solids, Total	88.0	88.2	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1226343-6 QC Sample: L1914743-02 Client ID: REUSE04_COMP01						
Chromium, Hexavalent	ND	0.204J	mg/kg	NC		20

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Serial_No:04151915:32
Lab Number: L1914743
Report Date: 04/15/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1914743-01A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1914743-01B	Vial water preserved	A	NA		4.7	Y	Absent	12-APR-19 10:17	NYTCL-8260HLW(14)
L1914743-01C	Vial water preserved	A	NA		4.7	Y	Absent	12-APR-19 10:17	NYTCL-8260HLW(14)
L1914743-01D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1914743-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	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),TRICR-CALC(30),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)
L1914743-02B	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1914743-02C	Glass 500ml/16oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
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- 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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 <p>NEW YORK CHAIN OF CUSTODY</p>		<p>Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105</p>		Page <u>1</u> of <u>1</u>		Date Rec'd in Lab <u>4/11/19</u>		ALPHA Job # <u>L1914743</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		<p>Project Information</p> Project Name: <u>300 West 122nd Street</u> Project Location: <u>NY, NY</u> Project # <u>170500202</u>				<p>Deliverables</p> <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		<p>Billing Information</p> <input checked="" type="checkbox"/> Same as Client Info PO #																																																														
<p>Client Information</p> Client: <u>LANGAN, DPC</u> Address: <u>21 Penn Plaza, 360W. 31st St. Flr. 8, NY, NY 10001</u> Phone: <u>212-479-5400</u> Fax: <u>212-479-5400</u> Email: <u>G.WYKA@LANGAN.COM</u>		(Use Project name as Project #) <input type="checkbox"/> Project Manager: <u>Greg Wyka</u> ALPHAQuote #: <u>E</u>		<p>Regulatory Requirement</p> <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other <u>TCL</u> <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge				<p>Disposal Site Information</p> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																
These samples have been previously analyzed by Alpha <input type="checkbox"/>		Other project specific requirements/comments:		<p>ANALYSIS</p> Part 375/TCL VOCs SVOCs PCBs Pest/Herbicides TAL Metals - tot. lead + hex + tri. chromium				<p>Sample Filtration</p> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		Total Bottles																																																														
Please specify Metals or TAL.		Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<table border="1"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th colspan="8">ANALYSIS</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>Part 375/TCL VOCs</th> <th>SVOCs</th> <th>PCBs</th> <th>Pest/Herbicides</th> <th>TAL Metals - tot. lead + hex + tri. chromium</th> <th>Other</th> <th>Other</th> <th>Other</th> <th>Other</th> </tr> </thead> <tbody> <tr> <td><u>19743.01</u></td> <td><u>REUSE04-GRAB01</u></td> <td><u>4/11/19</u></td> <td><u>1230</u></td> <td><u>SOIL</u></td> <td><u>AS</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>02</u></td> <td><u>REUSE04-COMP01</u></td> <td><u>"</u></td> <td><u>1235</u></td> <td><u>"</u></td> <td><u>"</u></td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				ALPHA Lab ID (Lab Use Only)	Sample ID		Collection		Sample Matrix	Sampler's Initials	ANALYSIS								Date	Time	Part 375/TCL VOCs	SVOCs	PCBs	Pest/Herbicides	TAL Metals - tot. lead + hex + tri. chromium	Other	Other	Other	Other	<u>19743.01</u>	<u>REUSE04-GRAB01</u>	<u>4/11/19</u>	<u>1230</u>	<u>SOIL</u>	<u>AS</u>	<input checked="" type="checkbox"/>													<u>02</u>	<u>REUSE04-COMP01</u>	<u>"</u>	<u>1235</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							Sample Specific Comments
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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>Greg Wyka</u> Date/Time: <u>4/11/19 13:40</u>		Received By: <u>Paul Mayolla</u> Date/Time: <u>4/11/19 13:40</u>		Relinquished By: <u>Paul Mayolla</u> Date/Time: <u>4/11/19 15:00</u>		Received By: <u>Paul Mayolla</u> Date/Time: <u>4/11/19 16:00</u>		Relinquished By: <u>Paul Mayolla</u> Date/Time: <u>4/11/19 21:00</u>		Received By: <u>Paul Mayolla</u> Date/Time: <u>4/11/19 21:00</u>																																																														



ANALYTICAL REPORT

Lab Number:	L1917599
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	04/30/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1917599-01	REUSE05_GRAB01	SOIL	NY, NY	04/29/19 14:40	04/29/19
L1917599-02	REUSE05_GRAB02	SOIL	NY, NY	04/29/19 14:45	04/29/19
L1917599-03	REUSE05_COMP01	SOIL	NY, NY	04/29/19 14:50	04/29/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

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.

Semivolatile Organics

The WG1231750-2/-3 LCS/LCSD recoveries, associated with L1917599-03, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Total Metals

L1917599-03: 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.

Cyanide, Total

The WG1231767-2/-3 LCS/LCSD recoveries(79%/69%), associated with L1917599-03, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 04/30/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-01
 Client ID: REUSE05_GRAB01
 Sample Location: NY, NY

Date Collected: 04/29/19 14:40
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/30/19 09:38
 Analyst: JC
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	0.27	J	ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.89	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.6	0.74	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-01
 Client ID: REUSE05_GRAB01
 Sample Location: NY, NY

Date Collected: 04/29/19 14:40
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.64	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.71	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
Dibromomethane	ND		ug/kg	2.6	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	28		ug/kg	13	6.1	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.18	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.24	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.1	0.83	1
Acrylonitrile	ND		ug/kg	5.1	1.5	1
Tert-Butyl Alcohol	ND		ug/kg	26	6.6	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-01
 Client ID: REUSE05_GRAB01
 Sample Location: NY, NY

Date Collected: 04/29/19 14:40
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.42	1
Methyl Acetate	ND		ug/kg	5.1	1.2	1
Acrolein	ND		ug/kg	32	7.2	1
Cyclohexane	ND		ug/kg	13	0.69	1
1,4-Dioxane	ND		ug/kg	100	45.	1
Freon-113	ND		ug/kg	5.1	0.88	1
p-Diethylbenzene	ND		ug/kg	2.6	0.22	1
p-Ethyltoluene	ND		ug/kg	2.6	0.49	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.24	1
Ethyl ether	ND		ug/kg	2.6	0.43	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1
Methyl cyclohexane	ND		ug/kg	5.1	0.77	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-02
 Client ID: REUSE05_GRAB02
 Sample Location: NY, NY

Date Collected: 04/29/19 14:45
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/30/19 11:12
 Analyst: JC
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.9	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.37	1
Tetrachloroethene	ND		ug/kg	0.69	0.27	1
Chlorobenzene	ND		ug/kg	0.69	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.96	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.69	0.23	1
Bromodichloromethane	ND		ug/kg	0.69	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.69	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.69	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.69	0.22	1
Bromoform	ND		ug/kg	5.5	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.69	0.23	1
Benzene	ND		ug/kg	0.69	0.23	1
Toluene	ND		ug/kg	1.4	0.75	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.5	1.3	1
Bromomethane	ND		ug/kg	2.7	0.80	1
Vinyl chloride	ND		ug/kg	1.4	0.46	1
Chloroethane	ND		ug/kg	2.7	0.62	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-02
 Client ID: REUSE05_GRAB02
 Sample Location: NY, NY

Date Collected: 04/29/19 14:45
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.69	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.28	1
p/m-Xylene	ND		ug/kg	2.7	0.77	1
o-Xylene	ND		ug/kg	1.4	0.40	1
Xylenes, Total	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
Dibromomethane	ND		ug/kg	2.7	0.33	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	ND		ug/kg	14	6.6	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	ND		ug/kg	14	3.0	1
Vinyl acetate	ND		ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.69	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.5	0.89	1
Acrylonitrile	ND		ug/kg	5.5	1.6	1
Tert-Butyl Alcohol	ND		ug/kg	27	7.1	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-02
 Client ID: REUSE05_GRAB02
 Sample Location: NY, NY

Date Collected: 04/29/19 14:45
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.46	1
Methyl Acetate	ND		ug/kg	5.5	1.3	1
Acrolein	ND		ug/kg	34	7.7	1
Cyclohexane	ND		ug/kg	14	0.75	1
1,4-Dioxane	ND		ug/kg	110	48.	1
Freon-113	ND		ug/kg	5.5	0.95	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.53	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.47	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.9	2.0	1
Methyl cyclohexane	ND		ug/kg	5.5	0.83	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	99		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/30/19 09:12
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1231875-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/30/19 09:12
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1231875-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/30/19 09:12
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1231875-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/30/19 09:12
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1231875-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1231875-3 WG1231875-4								
Methylene chloride	96		96		70-130	0		30
1,1-Dichloroethane	104		103		70-130	1		30
Chloroform	94		92		70-130	2		30
Carbon tetrachloride	89		87		70-130	2		30
1,2-Dichloropropane	103		102		70-130	1		30
Dibromochloromethane	90		90		70-130	0		30
1,1,2-Trichloroethane	96		96		70-130	0		30
Tetrachloroethene	90		89		70-130	1		30
Chlorobenzene	88		86		70-130	2		30
Trichlorofluoromethane	75		74		70-139	1		30
1,2-Dichloroethane	102		101		70-130	1		30
1,1,1-Trichloroethane	91		90		70-130	1		30
Bromodichloromethane	95		93		70-130	2		30
trans-1,3-Dichloropropene	99		98		70-130	1		30
cis-1,3-Dichloropropene	100		100		70-130	0		30
1,1-Dichloropropene	97		94		70-130	3		30
Bromoform	86		86		70-130	0		30
1,1,2,2-Tetrachloroethane	91		89		70-130	2		30
Benzene	97		96		70-130	1		30
Toluene	90		88		70-130	2		30
Ethylbenzene	90		88		70-130	2		30
Chloromethane	118		115		52-130	3		30
Bromomethane	87		84		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1231875-3 WG1231875-4								
Vinyl chloride	99		95		67-130	4		30
Chloroethane	85		83		50-151	2		30
1,1-Dichloroethene	97		96		65-135	1		30
trans-1,2-Dichloroethene	94		93		70-130	1		30
Trichloroethene	94		94		70-130	0		30
1,2-Dichlorobenzene	87		87		70-130	0		30
1,3-Dichlorobenzene	87		87		70-130	0		30
1,4-Dichlorobenzene	87		86		70-130	1		30
Methyl tert butyl ether	100		99		66-130	1		30
p/m-Xylene	90		89		70-130	1		30
o-Xylene	88		88		70-130	0		30
cis-1,2-Dichloroethene	92		91		70-130	1		30
Dibromomethane	94		93		70-130	1		30
Styrene	88		86		70-130	2		30
Dichlorodifluoromethane	88		85		30-146	3		30
Acetone	122		125		54-140	2		30
Carbon disulfide	95		92		59-130	3		30
2-Butanone	107		103		70-130	4		30
Vinyl acetate	115		110		70-130	4		30
4-Methyl-2-pentanone	107		100		70-130	7		30
1,2,3-Trichloropropane	92		92		68-130	0		30
2-Hexanone	105		100		70-130	5		30
Bromochloromethane	98		96		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1231875-3 WG1231875-4								
2,2-Dichloropropane	96		94		70-130	2		30
1,2-Dibromoethane	94		92		70-130	2		30
1,3-Dichloropropane	95		94		69-130	1		30
1,1,1,2-Tetrachloroethane	89		87		70-130	2		30
Bromobenzene	85		86		70-130	1		30
n-Butylbenzene	89		88		70-130	1		30
sec-Butylbenzene	87		86		70-130	1		30
tert-Butylbenzene	85		85		70-130	0		30
o-Chlorotoluene	87		88		70-130	1		30
p-Chlorotoluene	88		89		70-130	1		30
1,2-Dibromo-3-chloropropane	89		84		68-130	6		30
Hexachlorobutadiene	83		84		67-130	1		30
Isopropylbenzene	87		85		70-130	2		30
p-Isopropyltoluene	87		86		70-130	1		30
Naphthalene	87		85		70-130	2		30
Acrylonitrile	115		109		70-130	5		30
Tert-Butyl Alcohol	101		98		70-130	3		30
n-Propylbenzene	88		87		70-130	1		30
1,2,3-Trichlorobenzene	87		87		70-130	0		30
1,2,4-Trichlorobenzene	88		86		70-130	2		30
1,3,5-Trimethylbenzene	88		88		70-130	0		30
1,2,4-Trimethylbenzene	90		88		70-130	2		30
Methyl Acetate	124		121		51-146	2		30

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1231875-3 WG1231875-4								
Acrolein	120		110		70-130	9		30
Cyclohexane	111		110		59-142	1		30
1,4-Dioxane	105		99		65-136	6		30
Freon-113	99		96		50-139	3		30
p-Diethylbenzene	89		87		70-130	2		30
p-Ethyltoluene	90		89		70-130	1		30
1,2,4,5-Tetramethylbenzene	86		84		70-130	2		30
Ethyl ether	106		105		67-130	1		30
trans-1,4-Dichloro-2-butene	108		104		70-130	4		30
Methyl cyclohexane	94		92		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		105		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	99		100		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-03
 Client ID: REUSE05_COMP01
 Sample Location: NY, NY

Date Collected: 04/29/19 14:50
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/30/19 13:36
 Analyst: EK
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 04/30/19 05:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Benzidine	ND		ug/kg	580	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Azobenzene	ND		ug/kg	180	17.	1
Fluoranthene	75	J	ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-03
Client ID: REUSE05_COMP01
Sample Location: NY, NY

Date Collected: 04/29/19 14:50
Date Received: 04/29/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	53	J	ug/kg	100	20.	1
Benzo(a)pyrene	55	J	ug/kg	140	43.	1
Benzo(b)fluoranthene	75	J	ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	55	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	30	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	74	J	ug/kg	100	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
n-Nitrosodimethylamine	ND		ug/kg	350	34.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-03
 Client ID: REUSE05_COMP01
 Sample Location: NY, NY

Date Collected: 04/29/19 14:50
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
Atrazine	ND		ug/kg	140	62.	1
Benzaldehyde	ND		ug/kg	230	48.	1
Caprolactam	ND		ug/kg	180	54.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	99		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	103		30-120
2,4,6-Tribromophenol	166	Q	10-136
4-Terphenyl-d14	103		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/30/19 13:32
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 04/30/19 04:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1231750-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/30/19 13:32
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 04/30/19 04:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1231750-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	32.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 04/30/19 13:32
 Analyst: EK

Extraction Method: EPA 3546
 Extraction Date: 04/30/19 04:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1231750-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	82		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1231750-2 WG1231750-3								
Acenaphthene	82		80		31-137	2		50
Benzidine	53		55		10-66	4		50
1,2,4-Trichlorobenzene	76		72		38-107	5		50
Hexachlorobenzene	88		84		40-140	5		50
Bis(2-chloroethyl)ether	72		72		40-140	0		50
2-Chloronaphthalene	84		82		40-140	2		50
1,2-Dichlorobenzene	72		70		40-140	3		50
1,3-Dichlorobenzene	71		67		40-140	6		50
1,4-Dichlorobenzene	71		68		28-104	4		50
3,3'-Dichlorobenzidine	86		86		40-140	0		50
2,4-Dinitrotoluene	92		90		40-132	2		50
2,6-Dinitrotoluene	90		88		40-140	2		50
Azobenzene	95		91		40-140	4		50
Fluoranthene	83		82		40-140	1		50
4-Chlorophenyl phenyl ether	87		84		40-140	4		50
4-Bromophenyl phenyl ether	93		89		40-140	4		50
Bis(2-chloroisopropyl)ether	87		83		40-140	5		50
Bis(2-chloroethoxy)methane	79		76		40-117	4		50
Hexachlorobutadiene	80		80		40-140	0		50
Hexachlorocyclopentadiene	40		45		40-140	12		50
Hexachloroethane	70		69		40-140	1		50
Isophorone	83		80		40-140	4		50
Naphthalene	77		74		40-140	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1231750-2 WG1231750-3								
Nitrobenzene	81		78		40-140	4		50
NDPA/DPA	90		89		36-157	1		50
n-Nitrosodi-n-propylamine	83		81		32-121	2		50
Bis(2-ethylhexyl)phthalate	101		99		40-140	2		50
Butyl benzyl phthalate	91		90		40-140	1		50
Di-n-butylphthalate	89		86		40-140	3		50
Di-n-octylphthalate	105		104		40-140	1		50
Diethyl phthalate	94		92		40-140	2		50
Dimethyl phthalate	90		85		40-140	6		50
Benzo(a)anthracene	94		92		40-140	2		50
Benzo(a)pyrene	98		97		40-140	1		50
Benzo(b)fluoranthene	93		93		40-140	0		50
Benzo(k)fluoranthene	92		91		40-140	1		50
Chrysene	88		87		40-140	1		50
Acenaphthylene	89		88		40-140	1		50
Anthracene	80		79		40-140	1		50
Benzo(ghi)perylene	82		80		40-140	2		50
Fluorene	91		87		40-140	4		50
Phenanthrene	78		77		40-140	1		50
Dibenzo(a,h)anthracene	80		79		40-140	1		50
Indeno(1,2,3-cd)pyrene	87		85		40-140	2		50
Pyrene	82		81		35-142	1		50
Biphenyl	84		82		54-104	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1231750-2 WG1231750-3								
4-Chloroaniline	93		96		40-140	3		50
2-Nitroaniline	96		90		47-134	6		50
3-Nitroaniline	99		94		26-129	5		50
4-Nitroaniline	100		97		41-125	3		50
Dibenzofuran	86		85		40-140	1		50
2-Methylnaphthalene	80		76		40-140	5		50
1,2,4,5-Tetrachlorobenzene	90		87		40-117	3		50
Acetophenone	85		82		14-144	4		50
n-Nitrosodimethylamine	72		68		22-100	6		50
2,4,6-Trichlorophenol	97		96		30-130	1		50
p-Chloro-m-cresol	96		94		26-103	2		50
2-Chlorophenol	80		76		25-102	5		50
2,4-Dichlorophenol	88		86		30-130	2		50
2,4-Dimethylphenol	90		86		30-130	5		50
2-Nitrophenol	60		65		30-130	8		50
4-Nitrophenol	97		96		11-114	1		50
2,4-Dinitrophenol	20		20		4-130	0		50
4,6-Dinitro-o-cresol	28		33		10-130	16		50
Pentachlorophenol	79		81		17-109	3		50
Phenol	84		81		26-90	4		50
2-Methylphenol	83		80		30-130.	4		50
3-Methylphenol/4-Methylphenol	90		87		30-130	3		50
2,4,5-Trichlorophenol	97		96		30-130	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1231750-2 WG1231750-3								
Benzoic Acid	0	Q	0	Q	10-110	NC		50
Benzyl Alcohol	88		85		40-140	3		50
Carbazole	84		83		54-128	1		50
Atrazine	119		122		40-140	2		50
Benzaldehyde	78		76		40-140	3		50
Caprolactam	116		112		15-130	4		50
2,3,4,6-Tetrachlorophenol	91		91		40-140	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	78		77		25-120
Phenol-d6	78		77		10-120
Nitrobenzene-d5	83		82		23-120
2-Fluorobiphenyl	84		83		30-120
2,4,6-Tribromophenol	95		99		10-136
4-Terphenyl-d14	81		82		18-120

PCBS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-03
 Client ID: REUSE05_COMP01
 Sample Location: NY, NY

Date Collected: 04/29/19 14:50
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/30/19 11:47
 Analyst: WR
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 04/30/19 03:41
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/30/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.9	3.01	1	A
Aroclor 1221	ND		ug/kg	33.9	3.40	1	A
Aroclor 1232	ND		ug/kg	33.9	7.19	1	A
Aroclor 1242	ND		ug/kg	33.9	4.57	1	A
Aroclor 1248	ND		ug/kg	33.9	5.09	1	A
Aroclor 1254	ND		ug/kg	33.9	3.71	1	A
Aroclor 1260	ND		ug/kg	33.9	6.27	1	A
Aroclor 1262	ND		ug/kg	33.9	4.31	1	A
Aroclor 1268	ND		ug/kg	33.9	3.51	1	A
PCBs, Total	ND		ug/kg	33.9	3.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 04/30/19 10:30
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 04/29/19 20:34
Cleanup Method: EPA 3665A
Cleanup Date: 04/30/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03 Batch: WG1231658-1						
Aroclor 1016	ND		ug/kg	32.6	2.89	A
Aroclor 1221	ND		ug/kg	32.6	3.26	A
Aroclor 1232	ND		ug/kg	32.6	6.91	A
Aroclor 1242	ND		ug/kg	32.6	4.39	A
Aroclor 1248	ND		ug/kg	32.6	4.89	A
Aroclor 1254	ND		ug/kg	32.6	3.56	A
Aroclor 1260	ND		ug/kg	32.6	6.02	A
Aroclor 1262	ND		ug/kg	32.6	4.14	A
Aroclor 1268	ND		ug/kg	32.6	3.38	A
PCBs, Total	ND		ug/kg	32.6	2.89	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	74		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03 Batch: WG1231658-2 WG1231658-3									
Aroclor 1016	107		100		40-140	7		50	A
Aroclor 1260	87		84		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		76		30-150	A
Decachlorobiphenyl	70		69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		78		30-150	B
Decachlorobiphenyl	73		75		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-03
Client ID: REUSE05_COMP01
Sample Location: NY, NY

Date Collected: 04/29/19 14:50
Date Received: 04/29/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/30/19 14:15
Analyst: AMC
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/30/19 10:23
Cleanup Method: EPA 3620B
Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.63	0.319	1	A
Lindane	ND		ug/kg	0.678	0.303	1	A
Alpha-BHC	ND		ug/kg	0.678	0.193	1	A
Beta-BHC	ND		ug/kg	1.63	0.617	1	A
Heptachlor	ND		ug/kg	0.814	0.365	1	A
Aldrin	ND		ug/kg	1.63	0.573	1	A
Heptachlor epoxide	ND		ug/kg	3.05	0.916	1	A
Endrin	ND		ug/kg	0.678	0.278	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.712	1	A
Endrin ketone	ND		ug/kg	1.63	0.419	1	A
Dieldrin	ND		ug/kg	1.02	0.509	1	A
4,4'-DDE	ND		ug/kg	1.63	0.376	1	A
4,4'-DDD	ND		ug/kg	1.63	0.581	1	A
4,4'-DDT	ND		ug/kg	3.05	1.31	1	B
Endosulfan I	ND		ug/kg	1.63	0.385	1	A
Endosulfan II	ND		ug/kg	1.63	0.544	1	A
Endosulfan sulfate	ND		ug/kg	0.678	0.323	1	A
Methoxychlor	ND		ug/kg	3.05	0.950	1	A
Toxaphene	ND		ug/kg	30.5	8.55	1	A
cis-Chlordane	ND		ug/kg	2.04	0.567	1	A
trans-Chlordane	1.94	JIP	ug/kg	2.04	0.537	1	A
Chlordane	ND		ug/kg	13.2	5.39	1	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-03
 Client ID: REUSE05_COMP01
 Sample Location: NY, NY

Date Collected: 04/29/19 14:50
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	71		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-03
 Client ID: REUSE05_COMP01
 Sample Location: NY, NY

Date Collected: 04/29/19 14:50
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/30/19 15:54
 Analyst: DGM
 Percent Solids: 93%
 Methylation Date: 04/30/19 14:19

Extraction Method: EPA 8151A
 Extraction Date: 04/30/19 10:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	177	11.1	1	A
2,4,5-T	ND		ug/kg	177	5.48	1	A
2,4,5-TP (Silvex)	ND		ug/kg	177	4.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	74		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 04/30/19 16:12
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 04/29/19 14:39

Methylation Date: 04/30/19 14:19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 03 Batch: WG1231543-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.03	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	89		30-150	A
DCAA	75		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/30/19 10:55
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 04/29/19 18:39
Cleanup Method: EPA 3620B
Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1231628-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.648	0.290	A
Alpha-BHC	ND		ug/kg	0.648	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.590	A
Heptachlor	ND		ug/kg	0.778	0.349	A
Aldrin	ND		ug/kg	1.56	0.548	A
Heptachlor epoxide	ND		ug/kg	2.92	0.875	A
Endrin	ND		ug/kg	0.648	0.266	A
Endrin aldehyde	ND		ug/kg	1.94	0.681	A
Endrin ketone	ND		ug/kg	1.56	0.401	A
Dieldrin	ND		ug/kg	0.973	0.486	A
4,4'-DDE	ND		ug/kg	1.56	0.360	A
4,4'-DDD	ND		ug/kg	1.56	0.555	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.368	A
Endosulfan II	ND		ug/kg	1.56	0.520	A
Endosulfan sulfate	ND		ug/kg	0.648	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.908	A
Toxaphene	ND		ug/kg	29.2	8.17	A
cis-Chlordane	ND		ug/kg	1.94	0.542	A
trans-Chlordane	ND		ug/kg	1.94	0.514	A
Chlordane	ND		ug/kg	12.6	5.16	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/30/19 10:55
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 04/29/19 18:39
Cleanup Method: EPA 3620B
Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1231628-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	69		30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	101		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1231543-2 WG1231543-3									
2,4-D	106		116		30-150	9		30	A
2,4,5-T	91		91		30-150	0		30	A
2,4,5-TP (Silvex)	95		94		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	94		90		30-150	A
DCAA	86		86		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1231628-2 WG1231628-3									
Delta-BHC	137		133		30-150	3		30	A
Lindane	131		128		30-150	2		30	A
Alpha-BHC	141		137		30-150	3		30	A
Beta-BHC	133		125		30-150	6		30	A
Heptachlor	113		115		30-150	2		30	A
Aldrin	139		132		30-150	5		30	A
Heptachlor epoxide	147		143		30-150	3		30	A
Endrin	145		138		30-150	5		30	A
Endrin aldehyde	118		101		30-150	16		30	A
Endrin ketone	123		110		30-150	11		30	A
Dieldrin	145		138		30-150	5		30	A
4,4'-DDE	139		133		30-150	4		30	A
4,4'-DDD	126		120		30-150	5		30	A
4,4'-DDT	111		105		30-150	6		30	A
Endosulfan I	127		122		30-150	4		30	A
Endosulfan II	130		123		30-150	6		30	A
Endosulfan sulfate	112		104		30-150	7		30	A
Methoxychlor	98		91		30-150	7		30	A
cis-Chlordane	118		114		30-150	3		30	A
trans-Chlordane	107		102		30-150	5		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1231628-2 WG1231628-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		77		30-150	B
Decachlorobiphenyl	76		63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	122		114		30-150	A
Decachlorobiphenyl	144		133		30-150	A

METALS

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-03
 Client ID: REUSE05_COMP01
 Sample Location: NY, NY

Date Collected: 04/29/19 14:50
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1760		mg/kg	8.47	2.29	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Antimony, Total	0.525	J	mg/kg	4.23	0.322	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Arsenic, Total	0.364	J	mg/kg	0.847	0.176	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Barium, Total	23.3		mg/kg	0.847	0.147	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Beryllium, Total	0.102	J	mg/kg	0.423	0.028	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.847	0.083	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Calcium, Total	2020		mg/kg	8.47	2.96	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Chromium, Total	6.21		mg/kg	0.847	0.081	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Cobalt, Total	1.99		mg/kg	1.69	0.140	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Copper, Total	10.5		mg/kg	0.847	0.218	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Iron, Total	3910		mg/kg	4.23	0.764	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Lead, Total	25.6		mg/kg	4.23	0.227	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Magnesium, Total	930		mg/kg	8.47	1.30	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Manganese, Total	114		mg/kg	0.847	0.135	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.068	0.014	1	04/30/19 05:20	04/30/19 15:30	EPA 7471B	1,7471B	GD
Nickel, Total	5.53		mg/kg	2.12	0.205	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Potassium, Total	386		mg/kg	212	12.2	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.69	0.218	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.847	0.240	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Sodium, Total	46.8	J	mg/kg	169	2.67	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.69	0.267	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Vanadium, Total	5.97		mg/kg	0.847	0.172	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Zinc, Total	15.0		mg/kg	4.23	0.248	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	6.2		mg/kg	0.86	0.86	1		04/30/19 10:23	NA	107,-	



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

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): 03 Batch: WG1231761-1									
Aluminum, Total	ND	mg/kg	4.00	1.08	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Antimony, Total	ND	mg/kg	2.00	0.152	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Arsenic, Total	ND	mg/kg	0.400	0.083	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Barium, Total	ND	mg/kg	0.400	0.070	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Beryllium, Total	ND	mg/kg	0.200	0.013	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Cadmium, Total	ND	mg/kg	0.400	0.039	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Calcium, Total	ND	mg/kg	4.00	1.40	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Chromium, Total	ND	mg/kg	0.400	0.038	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Cobalt, Total	ND	mg/kg	0.800	0.066	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Copper, Total	ND	mg/kg	0.400	0.103	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Iron, Total	ND	mg/kg	2.00	0.361	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Lead, Total	ND	mg/kg	2.00	0.107	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Magnesium, Total	ND	mg/kg	4.00	0.616	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Manganese, Total	ND	mg/kg	0.400	0.064	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Nickel, Total	ND	mg/kg	1.00	0.097	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Potassium, Total	ND	mg/kg	100	5.76	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Selenium, Total	ND	mg/kg	0.800	0.103	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Silver, Total	ND	mg/kg	0.400	0.113	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Sodium, Total	ND	mg/kg	80.0	1.26	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Thallium, Total	ND	mg/kg	0.800	0.126	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Vanadium, Total	ND	mg/kg	0.400	0.081	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Zinc, Total	ND	mg/kg	2.00	0.117	1	04/30/19 06:00	04/30/19 09:49	1,6010D	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): 03 Batch: WG1231763-1									
Mercury, Total	ND	mg/kg	0.083	0.018	1	04/30/19 05:20	04/30/19 15:09	1,7471B	GD



Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1231761-2 SRM Lot Number: D101-540								
Aluminum, Total	58		-		50-151	-		
Antimony, Total	163		-		3-196	-		
Arsenic, Total	101		-		83-117	-		
Barium, Total	97		-		83-118	-		
Beryllium, Total	96		-		83-117	-		
Cadmium, Total	101		-		83-117	-		
Calcium, Total	89		-		81-119	-		
Chromium, Total	102		-		81-118	-		
Cobalt, Total	98		-		84-116	-		
Copper, Total	106		-		83-116	-		
Iron, Total	76		-		62-138	-		
Lead, Total	100		-		83-117	-		
Magnesium, Total	77		-		76-124	-		
Manganese, Total	95		-		82-118	-		
Nickel, Total	100		-		82-117	-		
Potassium, Total	79		-		71-130	-		
Selenium, Total	104		-		79-121	-		
Silver, Total	100		-		80-120	-		
Sodium, Total	91		-		72-127	-		
Thallium, Total	96		-		81-119	-		
Vanadium, Total	88		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1231761-2 SRM Lot Number: D101-540					
Zinc, Total	96	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1231763-2 SRM Lot Number: D101-540					
Mercury, Total	115	-	65-135	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1231761-3 QC Sample: L1917598-01 Client ID: MS Sample												
Aluminum, Total	3000	165	3790	477	Q	-	-		75-125	-		20
Antimony, Total	0.410J	41.4	41.3	100		-	-		75-125	-		20
Arsenic, Total	1.13	9.93	11.5	104		-	-		75-125	-		20
Barium, Total	42.0	165	210	102		-	-		75-125	-		20
Beryllium, Total	0.145J	4.14	3.83	92		-	-		75-125	-		20
Cadmium, Total	ND	4.22	3.79	90		-	-		75-125	-		20
Calcium, Total	10800	827	15600	580	Q	-	-		75-125	-		20
Chromium, Total	8.14	16.5	23.7	94		-	-		75-125	-		20
Cobalt, Total	3.09	41.4	38.6	86		-	-		75-125	-		20
Copper, Total	14.4	20.7	34.5	97		-	-		75-125	-		20
Iron, Total	6440	82.7	6700	314	Q	-	-		75-125	-		20
Lead, Total	68.6	42.2	116	112		-	-		75-125	-		20
Magnesium, Total	1660	827	2610	115		-	-		75-125	-		20
Manganese, Total	173	41.4	252	191	Q	-	-		75-125	-		20
Nickel, Total	8.15	41.4	44.0	87		-	-		75-125	-		20
Potassium, Total	719	827	1610	108		-	-		75-125	-		20
Selenium, Total	ND	9.93	9.67	97		-	-		75-125	-		20
Silver, Total	ND	24.8	22.6	91		-	-		75-125	-		20
Sodium, Total	108J	827	942	114		-	-		75-125	-		20
Thallium, Total	ND	9.93	7.41	75		-	-		75-125	-		20
Vanadium, Total	11.6	41.4	48.2	88		-	-		75-125	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1231761-3 QC Sample: L1917598-01 Client ID: MS Sample									
Zinc, Total	36.9	41.4	87.6	122	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1231763-3 QC Sample: L1917644-01 Client ID: MS Sample									
Mercury, Total	0.046J	0.16	0.211	132	Q	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1231761-4 QC Sample: L1917598-01 Client ID: DUP Sample						
Aluminum, Total	3000	3160	mg/kg	5		20
Antimony, Total	0.410J	0.440J	mg/kg	NC		20
Arsenic, Total	1.13	1.25	mg/kg	10		20
Barium, Total	42.0	35.5	mg/kg	17		20
Beryllium, Total	0.145J	0.147J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	10800	8640	mg/kg	22	Q	20
Chromium, Total	8.14	9.06	mg/kg	11		20
Cobalt, Total	3.09	3.59	mg/kg	15		20
Copper, Total	14.4	15.9	mg/kg	10		20
Iron, Total	6440	6190	mg/kg	4		20
Lead, Total	68.6	59.9	mg/kg	14		20
Magnesium, Total	1660	1850	mg/kg	11		20
Manganese, Total	173	146	mg/kg	17		20
Nickel, Total	8.15	9.07	mg/kg	11		20
Potassium, Total	719	757	mg/kg	5		20
Selenium, Total	ND	0.269J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	108J	113J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1231761-4 QC Sample: L1917598-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	11.6	9.69	mg/kg	18	20
Zinc, Total	36.9	36.6	mg/kg	1	20
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1231763-4 QC Sample: L1917644-01 Client ID: DUP Sample					
Mercury, Total	0.046J	0.037J	mg/kg	NC	20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-01

Client ID: REUSE05_GRAB01

Sample Location: NY, NY

Date Collected: 04/29/19 14:40

Date Received: 04/29/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.7		%	0.100	NA	1	-	04/30/19 03:33	121,2540G	YA



Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-02

Client ID: REUSE05_GRAB02

Sample Location: NY, NY

Date Collected: 04/29/19 14:45

Date Received: 04/29/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

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	-	04/30/19 03:33	121,2540G	YA



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-03
Client ID: REUSE05_COMP01
Sample Location: NY, NY

Date Collected: 04/29/19 14:50
Date Received: 04/29/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.0		%	0.100	NA	1	-	04/30/19 03:33	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	04/30/19 05:50	04/30/19 11:13	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.860	0.172	1	04/30/19 04:41	04/30/19 09:36	1,7196A	NH



Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

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): 03 Batch: WG1231764-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	04/30/19 04:41	04/30/19 09:36	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1231767-1									
Cyanide, Total	ND	mg/kg	0.86	0.18	1	04/30/19 05:50	04/30/19 11:00	1,9010C/9012B	LH

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1231764-2								
Chromium, Hexavalent	93		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1231767-2 WG1231767-3								
Cyanide, Total	79	Q	69	Q	80-120	15		35

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1231764-4 QC Sample: L1917598-03 Client ID: MS Sample												
Chromium, Hexavalent	ND	1300	1240	95	-	-	-	-	75-125	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1231767-4 WG1231767-5 QC Sample: L1917599-03 Client ID: REUSE05_COMP01												
Cyanide, Total	ND	11	10	94	9.6	97	97	97	75-125	4	4	35

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1231740-1 QC Sample: L1917608-01 Client ID: DUP Sample						
Solids, Total	92.9	92.1	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1231764-6 QC Sample: L1917598-03 Client ID: DUP Sample						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Serial_No:04301918:54
Lab Number: L1917599
Report Date: 04/30/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1917599-01A	Vial MeOH preserved	A	NA		3.7	Y	Absent		NYTCL-8260HLW(14)
L1917599-01B	Vial water preserved	A	NA		3.7	Y	Absent	30-APR-19 02:48	NYTCL-8260HLW(14)
L1917599-01C	Vial water preserved	A	NA		3.7	Y	Absent	30-APR-19 02:48	NYTCL-8260HLW(14)
L1917599-01D	Plastic 2oz unpreserved for TS	A	NA		3.7	Y	Absent		TS(7)
L1917599-02A	Vial MeOH preserved	A	NA		3.7	Y	Absent		NYTCL-8260HLW(14)
L1917599-02B	Vial water preserved	A	NA		3.7	Y	Absent	30-APR-19 02:48	NYTCL-8260HLW(14)
L1917599-02C	Vial water preserved	A	NA		3.7	Y	Absent	30-APR-19 02:48	NYTCL-8260HLW(14)
L1917599-02D	Plastic 2oz unpreserved for TS	A	NA		3.7	Y	Absent		TS(7)
L1917599-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.7	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)
L1917599-03B	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1917599-03C	Glass 500ml/16oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

- 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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY 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	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		Date Rec'd in Lab	4/29/19	ALPHA Job #	L1917599		
		Project Information Project Name: 300 West 122nd St. Project Location: NY, NY Project # 170500262 (Use Project name as Project #) <input type="checkbox"/>			Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other			Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #					
Client Information Client: LANGAN, DPC Address: 360 W. 31st St. NY, NY 10001 Phone: Fax: Email: GWYKA@LANGAN.COM			Project Manager: Greg Wyka ALPHAQuote #: Turn-Around Time Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days: 1 day			Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge			Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:				
These samples have been previously analyzed by Alpha <input type="checkbox"/>						ANALYSIS						Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)	Total Bottles
Other project specific requirements/comments:						Part 375 TCL VOCs SVOCs PCBs Pest/Herbs TAL Metals + tri/hex (Ch-Dome + ppt. Legated)						Sample Specific Comments	
Please specify Metals or TAL.													
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials								
		Date	Time										
17599-01	REUSEOS-GRAB01	4/29	1440	Soil	AS								
02	REUSEOS-GRAB02	↓	1445	↓	↓								
03	REUSEOS-COMP01	↓	1450	↓	↓								
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:		Date/Time		Received By:		Date/Time							
Whitney Stappanale		4/29/19 1533		Rameik Jackson		4/29 1533							
[Signature]		4/29 1710		[Signature]		4/29/19 1915							
[Signature]		4/29/19 2345		[Signature]		4/29/19 22175							



ANALYTICAL REPORT

Lab Number:	L1835505
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	170500202
Project Number:	170500202
Report Date:	09/14/18

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1835505-01	REUSE02_COMP01	SOIL	300 WEST 122ND ST.	09/07/18 14:00	09/07/18
L1835505-02	REUSE02_GRAB01	SOIL	300 WEST 122ND ST.	09/07/18 14:00	09/07/18

Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

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: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

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.

Total Metals

L1835505-01: 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.

Cyanide, Total

The WG1154932-3 LCSD recovery (77%), associated with L1835505-01, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: 09/14/18

ORGANICS

VOLATILES

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-02
 Client ID: REUSE02_GRAB01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/13/18 05:12
 Analyst: JC
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.87	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.87	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.87	0.11	1
Dibromochloromethane	ND		ug/kg	0.87	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.87	0.23	1
Tetrachloroethene	ND		ug/kg	0.44	0.17	1
Chlorobenzene	ND		ug/kg	0.44	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.61	1
1,2-Dichloroethane	ND		ug/kg	0.87	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.14	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.87	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.44	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.44	0.14	1
Bromoform	ND		ug/kg	3.5	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.14	1
Benzene	ND		ug/kg	0.44	0.14	1
Toluene	ND		ug/kg	0.87	0.47	1
Ethylbenzene	ND		ug/kg	0.87	0.12	1
Chloromethane	ND		ug/kg	3.5	0.81	1
Bromomethane	ND		ug/kg	1.7	0.51	1
Vinyl chloride	ND		ug/kg	0.87	0.29	1
Chloroethane	ND		ug/kg	1.7	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.87	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-02
 Client ID: REUSE02_GRAB01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.44	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.18	1
p/m-Xylene	ND		ug/kg	1.7	0.49	1
o-Xylene	ND		ug/kg	0.87	0.25	1
Xylenes, Total	ND		ug/kg	0.87	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.87	0.15	1
Dibromomethane	ND		ug/kg	1.7	0.21	1
Styrene	ND		ug/kg	0.87	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.7	0.80	1
Acetone	ND		ug/kg	8.7	4.2	1
Carbon disulfide	ND		ug/kg	8.7	4.0	1
2-Butanone	ND		ug/kg	8.7	1.9	1
Vinyl acetate	ND		ug/kg	8.7	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.7	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.7	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.87	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.44	0.12	1
Bromobenzene	ND		ug/kg	1.7	0.13	1
n-Butylbenzene	ND		ug/kg	0.87	0.14	1
sec-Butylbenzene	ND		ug/kg	0.87	0.13	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.17	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.87	1
Hexachlorobutadiene	ND		ug/kg	3.5	0.15	1
Isopropylbenzene	ND		ug/kg	0.87	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.87	0.10	1
Naphthalene	ND		ug/kg	3.5	0.57	1
Acrylonitrile	ND		ug/kg	3.5	1.0	1
Tert-Butyl Alcohol	32		ug/kg	17	4.5	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-02
 Client ID: REUSE02_GRAB01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.87	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.29	1
Methyl Acetate	ND		ug/kg	3.5	0.83	1
Acrolein	ND		ug/kg	22	4.9	1
Cyclohexane	ND		ug/kg	8.7	0.48	1
1,4-Dioxane	ND		ug/kg	87	31.	1
Freon-113	ND		ug/kg	3.5	0.60	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.34	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.17	1
Ethyl ether	ND		ug/kg	1.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.4	1.2	1
Methyl cyclohexane	ND		ug/kg	3.5	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	95		70-130

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/12/18 20:25
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1156524-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/12/18 20:25
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1156524-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/12/18 20:25
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1156524-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/12/18 20:25
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1156524-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1156524-3 WG1156524-4								
Methylene chloride	88		87		70-130	1		30
1,1-Dichloroethane	88		85		70-130	3		30
Chloroform	88		86		70-130	2		30
Carbon tetrachloride	79		78		70-130	1		30
1,2-Dichloropropane	86		86		70-130	0		30
Dibromochloromethane	80		82		70-130	2		30
1,1,2-Trichloroethane	96		95		70-130	1		30
Tetrachloroethene	89		87		70-130	2		30
Chlorobenzene	88		87		70-130	1		30
Trichlorofluoromethane	118		115		70-139	3		30
1,2-Dichloroethane	83		82		70-130	1		30
1,1,1-Trichloroethane	83		81		70-130	2		30
Bromodichloromethane	80		79		70-130	1		30
trans-1,3-Dichloropropene	90		90		70-130	0		30
cis-1,3-Dichloropropene	81		81		70-130	0		30
1,1-Dichloropropene	89		86		70-130	3		30
Bromoform	80		81		70-130	1		30
1,1,2,2-Tetrachloroethane	99		97		70-130	2		30
Benzene	97		94		70-130	3		30
Toluene	99		98		70-130	1		30
Ethylbenzene	100		98		70-130	2		30
Chloromethane	79		77		52-130	3		30
Bromomethane	117		116		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1156524-3 WG1156524-4								
Vinyl chloride	104		100		67-130	4		30
Chloroethane	113		110		50-151	3		30
1,1-Dichloroethene	86		84		65-135	2		30
trans-1,2-Dichloroethene	88		85		70-130	3		30
Trichloroethene	85		83		70-130	2		30
1,2-Dichlorobenzene	95		94		70-130	1		30
1,3-Dichlorobenzene	98		97		70-130	1		30
1,4-Dichlorobenzene	97		96		70-130	1		30
Methyl tert butyl ether	81		81		66-130	0		30
p/m-Xylene	94		93		70-130	1		30
o-Xylene	88		88		70-130	0		30
cis-1,2-Dichloroethene	87		85		70-130	2		30
Dibromomethane	85		83		70-130	2		30
Styrene	88		86		70-130	2		30
Dichlorodifluoromethane	82		77		30-146	6		30
Acetone	113		105		54-140	7		30
Carbon disulfide	85		82		59-130	4		30
2-Butanone	71		69	Q	70-130	3		30
Vinyl acetate	74		72		70-130	3		30
4-Methyl-2-pentanone	93		92		70-130	1		30
1,2,3-Trichloropropane	99		100		68-130	1		30
2-Hexanone	83		83		70-130	0		30
Bromochloromethane	82		81		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1156524-3 WG1156524-4								
2,2-Dichloropropane	86		83		70-130	4		30
1,2-Dibromoethane	92		93		70-130	1		30
1,3-Dichloropropane	96		97		69-130	1		30
1,1,1,2-Tetrachloroethane	80		80		70-130	0		30
Bromobenzene	93		92		70-130	1		30
n-Butylbenzene	111		109		70-130	2		30
sec-Butylbenzene	106		103		70-130	3		30
tert-Butylbenzene	103		100		70-130	3		30
o-Chlorotoluene	105		101		70-130	4		30
p-Chlorotoluene	102		100		70-130	2		30
1,2-Dibromo-3-chloropropane	87		89		68-130	2		30
Hexachlorobutadiene	96		94		67-130	2		30
Isopropylbenzene	105		102		70-130	3		30
p-Isopropyltoluene	105		102		70-130	3		30
Naphthalene	94		95		70-130	1		30
Acrylonitrile	91		90		70-130	1		30
Tert-Butyl Alcohol	80		82		70-130	2		30
n-Propylbenzene	109		106		70-130	3		30
1,2,3-Trichlorobenzene	91		92		70-130	1		30
1,2,4-Trichlorobenzene	95		95		70-130	0		30
1,3,5-Trimethylbenzene	103		100		70-130	3		30
1,2,4-Trimethylbenzene	103		100		70-130	3		30
Methyl Acetate	82		79		51-146	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1156524-3 WG1156524-4								
Acrolein	86		86		70-130	0		30
Cyclohexane	85		82		59-142	4		30
1,4-Dioxane	96		104		65-136	8		30
Freon-113	86		82		50-139	5		30
p-Diethylbenzene	104		102		70-130	2		30
p-Ethyltoluene	106		103		70-130	3		30
1,2,4,5-Tetramethylbenzene	100		98		70-130	2		30
Ethyl ether	109		110		67-130	1		30
trans-1,4-Dichloro-2-butene	86		92		70-130	7		30
Methyl cyclohexane	92		89		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		99		70-130
Toluene-d8	106		107		70-130
4-Bromofluorobenzene	106		105		70-130
Dibromofluoromethane	95		95		70-130

SEMIVOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01
 Client ID: REUSE02_COMP01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/12/18 04:46
 Analyst: IM
 Percent Solids: 96%

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	22	J	ug/kg	140	18.	1
Benzidine	ND		ug/kg	570	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Azobenzene	ND		ug/kg	170	16.	1
Fluoranthene	770		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	37	J	ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01
 Client ID: REUSE02_COMP01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	450		ug/kg	100	19.	1
Benzo(a)pyrene	420		ug/kg	140	42.	1
Benzo(b)fluoranthene	580		ug/kg	100	29.	1
Benzo(k)fluoranthene	200		ug/kg	100	28.	1
Chrysene	440		ug/kg	100	18.	1
Acenaphthylene	130	J	ug/kg	140	27.	1
Anthracene	130		ug/kg	100	34.	1
Benzo(ghi)perylene	310		ug/kg	140	20.	1
Fluorene	31	J	ug/kg	170	17.	1
Phenanthrene	370		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	66	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	290		ug/kg	140	24.	1
Pyrene	710		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	16	J	ug/kg	170	16.	1
2-Methylnaphthalene	30	J	ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
n-Nitrosodimethylamine	ND		ug/kg	340	33.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	830	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01
Client ID: REUSE02_COMP01
Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
Date Received: 09/07/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	39	J	ug/kg	170	17.	1
Atrazine	ND		ug/kg	140	60.	1
Benzaldehyde	ND		ug/kg	230	46.	1
Caprolactam	ND		ug/kg	170	52.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	80		18-120

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 09/12/18 18:43
 Analyst: SZ

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1154975-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 09/12/18 18:43
 Analyst: SZ

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1154975-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	32.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 09/12/18 18:43
 Analyst: SZ

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1154975-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 09/12/18 18:43
 Analyst: SZ

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1154975-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	34		25-120
Phenol-d6	38		10-120
Nitrobenzene-d5	37		23-120
2-Fluorobiphenyl	41		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	96		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1154975-2 WG1154975-3								
Acenaphthene	94		90		31-137	4		50
Benzidine	36		34		10-66	6		50
1,2,4-Trichlorobenzene	90		89		38-107	1		50
Hexachlorobenzene	102		96		40-140	6		50
Bis(2-chloroethyl)ether	83		80		40-140	4		50
2-Chloronaphthalene	96		92		40-140	4		50
1,2-Dichlorobenzene	83		84		40-140	1		50
1,3-Dichlorobenzene	82		80		40-140	2		50
1,4-Dichlorobenzene	83		84		28-104	1		50
3,3'-Dichlorobenzidine	91		83		40-140	9		50
2,4-Dinitrotoluene	124		114		40-132	8		50
2,6-Dinitrotoluene	109		105		40-140	4		50
Azobenzene	106		100		40-140	6		50
Fluoranthene	104		98		40-140	6		50
4-Chlorophenyl phenyl ether	99		94		40-140	5		50
4-Bromophenyl phenyl ether	101		97		40-140	4		50
Bis(2-chloroisopropyl)ether	88		86		40-140	2		50
Bis(2-chloroethoxy)methane	85		80		40-117	6		50
Hexachlorobutadiene	103		100		40-140	3		50
Hexachlorocyclopentadiene	98		94		40-140	4		50
Hexachloroethane	89		91		40-140	2		50
Isophorone	89		88		40-140	1		50
Naphthalene	88		85		40-140	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1154975-2 WG1154975-3								
Nitrobenzene	95		94		40-140	1		50
NDPA/DPA	96		91		36-157	5		50
n-Nitrosodi-n-propylamine	90		86		32-121	5		50
Bis(2-ethylhexyl)phthalate	110		99		40-140	11		50
Butyl benzyl phthalate	114		109		40-140	4		50
Di-n-butylphthalate	109		103		40-140	6		50
Di-n-octylphthalate	108		102		40-140	6		50
Diethyl phthalate	110		101		40-140	9		50
Dimethyl phthalate	103		96		40-140	7		50
Benzo(a)anthracene	95		89		40-140	7		50
Benzo(a)pyrene	104		98		40-140	6		50
Benzo(b)fluoranthene	108		93		40-140	15		50
Benzo(k)fluoranthene	97		99		40-140	2		50
Chrysene	96		90		40-140	6		50
Acenaphthylene	97		90		40-140	7		50
Anthracene	100		96		40-140	4		50
Benzo(ghi)perylene	106		100		40-140	6		50
Fluorene	97		92		40-140	5		50
Phenanthrene	95		91		40-140	4		50
Dibenzo(a,h)anthracene	104		97		40-140	7		50
Indeno(1,2,3-cd)pyrene	98		89		40-140	10		50
Pyrene	103		98		35-142	5		50
Biphenyl	99		93		54-104	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1154975-2 WG1154975-3								
4-Chloroaniline	93		89		40-140	4		50
2-Nitroaniline	105		96		47-134	9		50
3-Nitroaniline	92		88		26-129	4		50
4-Nitroaniline	98		87		41-125	12		50
Dibenzofuran	99		92		40-140	7		50
2-Methylnaphthalene	92		87		40-140	6		50
1,2,4,5-Tetrachlorobenzene	105		102		40-117	3		50
Acetophenone	94		91		14-144	3		50
n-Nitrosodimethylamine	80		80		22-100	0		50
2,4,6-Trichlorophenol	108		99		30-130	9		50
p-Chloro-m-cresol	106	Q	99		26-103	7		50
2-Chlorophenol	94		92		25-102	2		50
2,4-Dichlorophenol	102		98		30-130	4		50
2,4-Dimethylphenol	97		97		30-130	0		50
2-Nitrophenol	103		97		30-130	6		50
4-Nitrophenol	146	Q	131	Q	11-114	11		50
2,4-Dinitrophenol	110		98		4-130	12		50
4,6-Dinitro-o-cresol	109		104		10-130	5		50
Pentachlorophenol	106		96		17-109	10		50
Phenol	80		78		26-90	3		50
2-Methylphenol	93		87		30-130	7		50
3-Methylphenol/4-Methylphenol	90		86		30-130	5		50
2,4,5-Trichlorophenol	109		102		30-130	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1154975-2 WG1154975-3								
Benzoic Acid	18		15		10-110	18		50
Benzyl Alcohol	98		95		40-140	3		50
Carbazole	102		96		54-128	6		50
Atrazine	122		115		40-140	6		50
Benzaldehyde	71		71		40-140	0		50
Caprolactam	114		104		15-130	9		50
2,3,4,6-Tetrachlorophenol	112		104		40-140	7		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	90		88		25-120
Phenol-d6	92		86		10-120
Nitrobenzene-d5	103		97		23-120
2-Fluorobiphenyl	97		89		30-120
2,4,6-Tribromophenol	115		103		10-136
4-Terphenyl-d14	99		92		18-120

PCBS

Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01
Client ID: REUSE02_COMP01
Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
Date Received: 09/07/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/10/18 17:39
Analyst: AWS
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 09/09/18 11:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/10/18
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.2	2.95	1	A
Aroclor 1221	ND		ug/kg	33.2	3.32	1	A
Aroclor 1232	ND		ug/kg	33.2	7.03	1	A
Aroclor 1242	ND		ug/kg	33.2	4.47	1	A
Aroclor 1248	ND		ug/kg	33.2	4.98	1	A
Aroclor 1254	13.0	J	ug/kg	33.2	3.63	1	B
Aroclor 1260	13.9	J	ug/kg	33.2	6.13	1	B
Aroclor 1262	ND		ug/kg	33.2	4.21	1	A
Aroclor 1268	ND		ug/kg	33.2	3.44	1	A
PCBs, Total	26.9	J	ug/kg	33.2	2.95	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 09/10/18 02:09
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 09/09/18 11:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/09/18
Cleanup Method: EPA 3660B
Cleanup Date: 09/10/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1154991-1						
Aroclor 1016	ND		ug/kg	31.7	2.82	A
Aroclor 1221	ND		ug/kg	31.7	3.18	A
Aroclor 1232	ND		ug/kg	31.7	6.72	A
Aroclor 1242	ND		ug/kg	31.7	4.28	A
Aroclor 1248	ND		ug/kg	31.7	4.76	A
Aroclor 1254	ND		ug/kg	31.7	3.47	A
Aroclor 1260	ND		ug/kg	31.7	5.86	A
Aroclor 1262	ND		ug/kg	31.7	4.03	A
Aroclor 1268	ND		ug/kg	31.7	3.29	A
PCBs, Total	ND		ug/kg	31.7	2.82	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	91		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1154991-2 WG1154991-3									
Aroclor 1016	74		71		40-140	4		50	A
Aroclor 1260	68		66		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		85		30-150	A
Decachlorobiphenyl	78		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	103		83		30-150	B
Decachlorobiphenyl	103		84		30-150	B

PESTICIDES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01
Client ID: REUSE02_COMP01
Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
Date Received: 09/07/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/12/18 19:18
Analyst: JW
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 09/09/18 10:22
Cleanup Method: EPA 3620B
Cleanup Date: 09/10/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.321	1	A
Lindane	ND		ug/kg	0.683	0.305	1	A
Alpha-BHC	ND		ug/kg	0.683	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.621	1	A
Heptachlor	ND		ug/kg	0.819	0.367	1	A
Aldrin	ND		ug/kg	1.64	0.577	1	A
Heptachlor epoxide	ND		ug/kg	3.07	0.922	1	A
Endrin	ND		ug/kg	0.683	0.280	1	A
Endrin aldehyde	ND		ug/kg	2.05	0.717	1	A
Endrin ketone	ND		ug/kg	1.64	0.422	1	A
Dieldrin	2.29		ug/kg	1.02	0.512	1	A
4,4'-DDE	11.6		ug/kg	1.64	0.379	1	A
4,4'-DDD	0.816	J	ug/kg	1.64	0.584	1	B
4,4'-DDT	21.6		ug/kg	3.07	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.387	1	A
Endosulfan II	ND		ug/kg	1.64	0.548	1	A
Endosulfan sulfate	ND		ug/kg	0.683	0.325	1	A
Methoxychlor	ND		ug/kg	3.07	0.956	1	A
Toxaphene	ND		ug/kg	30.7	8.60	1	A
cis-Chlordane	6.60	P	ug/kg	2.05	0.571	1	A
trans-Chlordane	7.77	PI	ug/kg	2.05	0.541	1	A
Chlordane	ND		ug/kg	13.3	5.43	1	A

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01
 Client ID: REUSE02_COMP01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	102		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	98		30-150	A

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01
 Client ID: REUSE02_COMP01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/13/18 22:35
 Analyst: KEG
 Percent Solids: 96%
 Methylation Date: 09/12/18 09:44

Extraction Method: EPA 8151A
 Extraction Date: 09/11/18 09:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	171	10.8	1	A
2,4,5-T	ND		ug/kg	171	5.30	1	A
2,4,5-TP (Silvex)	ND		ug/kg	171	4.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	81		30-150	B

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 09/12/18 18:16
 Analyst: JW

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 10:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/10/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1154983-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.638	0.285	A
Alpha-BHC	ND		ug/kg	0.638	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.581	A
Heptachlor	ND		ug/kg	0.766	0.343	A
Aldrin	ND		ug/kg	1.53	0.539	A
Heptachlor epoxide	ND		ug/kg	2.87	0.862	A
Endrin	ND		ug/kg	0.638	0.262	A
Endrin aldehyde	ND		ug/kg	1.91	0.670	A
Endrin ketone	ND		ug/kg	1.53	0.394	A
Dieldrin	ND		ug/kg	0.957	0.479	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.546	A
4,4'-DDT	ND		ug/kg	2.87	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.512	A
Endosulfan sulfate	ND		ug/kg	0.638	0.304	A
Methoxychlor	ND		ug/kg	2.87	0.893	A
Toxaphene	ND		ug/kg	28.7	8.04	A
cis-Chlordane	ND		ug/kg	1.91	0.534	A
trans-Chlordane	ND		ug/kg	1.91	0.505	A
Chlordane	ND		ug/kg	12.4	5.07	A

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 09/12/18 18:16
 Analyst: JW

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 10:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/10/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1154983-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	91		30-150	A

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
 Analytical Date: 09/12/18 10:48
 Analyst: DGM

Extraction Method: EPA 8151A
 Extraction Date: 09/11/18 09:51

Methylation Date: 09/12/18 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1155581-1						
2,4-D	ND		ug/kg	163	10.3	A
2,4,5-T	ND		ug/kg	163	5.07	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.35	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	100		30-150	A
DCAA	83		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1154983-2 WG1154983-3									
Delta-BHC	107		106		30-150	1		30	A
Lindane	103		102		30-150	1		30	A
Alpha-BHC	110		109		30-150	1		30	A
Beta-BHC	112		111		30-150	1		30	A
Heptachlor	75		78		30-150	4		30	A
Aldrin	100		100		30-150	0		30	A
Heptachlor epoxide	101		102		30-150	1		30	A
Endrin	113		112		30-150	1		30	A
Endrin aldehyde	95		91		30-150	4		30	A
Endrin ketone	111		110		30-150	1		30	A
Dieldrin	116		116		30-150	0		30	A
4,4'-DDE	112		109		30-150	3		30	A
4,4'-DDD	117		115		30-150	2		30	A
4,4'-DDT	116		117		30-150	1		30	A
Endosulfan I	103		102		30-150	1		30	A
Endosulfan II	110		110		30-150	0		30	A
Endosulfan sulfate	133		131		30-150	2		30	A
Methoxychlor	120		121		30-150	1		30	A
cis-Chlordane	91		90		30-150	1		30	A
trans-Chlordane	106		105		30-150	1		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1154983-2 WG1154983-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	96		97		30-150	B
Decachlorobiphenyl	91		95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		94		30-150	A
Decachlorobiphenyl	108		91		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1155581-2 WG1155581-3									
2,4-D	117		132		30-150	12		30	A
2,4,5-T	90		102		30-150	13		30	A
2,4,5-TP (Silvex)	110		126		30-150	14		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	89		109		30-150	A
DCAA	90		93		30-150	B

METALS

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01
 Client ID: REUSE02_COMP01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3710		mg/kg	7.93	2.14	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Antimony, Total	0.658	J	mg/kg	3.96	0.301	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Arsenic, Total	2.60		mg/kg	0.793	0.165	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Barium, Total	65.9		mg/kg	0.793	0.138	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Beryllium, Total	0.238	J	mg/kg	0.396	0.026	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Cadmium, Total	0.317	J	mg/kg	0.793	0.078	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Calcium, Total	11300		mg/kg	7.93	2.78	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Chromium, Total	9.27		mg/kg	0.793	0.076	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Cobalt, Total	4.02		mg/kg	1.59	0.132	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Copper, Total	19.1		mg/kg	0.793	0.205	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Iron, Total	8000		mg/kg	3.96	0.716	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Lead, Total	160		mg/kg	3.96	0.212	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Magnesium, Total	2040		mg/kg	7.93	1.22	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Manganese, Total	318		mg/kg	0.793	0.126	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Mercury, Total	0.164		mg/kg	0.066	0.014	1	09/13/18 03:30	09/13/18 15:09	EPA 7471B	1,7471B	MG
Nickel, Total	10.6		mg/kg	1.98	0.192	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Potassium, Total	650		mg/kg	198	11.4	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Selenium, Total	0.555	J	mg/kg	1.59	0.205	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.793	0.224	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Sodium, Total	133	J	mg/kg	159	2.50	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.59	0.250	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Vanadium, Total	21.2		mg/kg	0.793	0.161	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Zinc, Total	78.0		mg/kg	3.96	0.232	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.3		mg/kg	0.83	0.83	1		09/14/18 00:29	NA	107,-	



Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

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): 01 Batch: WG1156309-1									
Mercury, Total	ND	mg/kg	0.083	0.018	1	09/13/18 03:30	09/13/18 11:57	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1156575-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Antimony, Total	ND	mg/kg	2.00	0.152	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Barium, Total	ND	mg/kg	0.400	0.070	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Calcium, Total	ND	mg/kg	4.00	1.40	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Chromium, Total	ND	mg/kg	0.400	0.038	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Copper, Total	ND	mg/kg	0.400	0.103	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Iron, Total	0.544	J	mg/kg	2.00	0.361	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Lead, Total	ND	mg/kg	2.00	0.107	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Manganese, Total	ND	mg/kg	0.400	0.064	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Nickel, Total	ND	mg/kg	1.00	0.097	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Potassium, Total	ND	mg/kg	100	5.76	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Selenium, Total	ND	mg/kg	0.800	0.103	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Silver, Total	ND	mg/kg	0.400	0.113	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Sodium, Total	ND	mg/kg	80.0	1.26	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Thallium, Total	ND	mg/kg	0.800	0.126	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	
Zinc, Total	ND	mg/kg	2.00	0.117	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB	

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1156309-2 SRM Lot Number: D102-540								
Mercury, Total	114		-		65-134	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1156575-2 SRM Lot Number: D102-540					
Aluminum, Total	61	-	49-150	-	
Antimony, Total	153	-	1-199	-	
Arsenic, Total	89	-	83-117	-	
Barium, Total	83	-	83-118	-	
Beryllium, Total	86	-	83-116	-	
Cadmium, Total	87	-	83-118	-	
Calcium, Total	86	-	82-118	-	
Chromium, Total	83	-	83-117	-	
Cobalt, Total	84	-	84-116	-	
Copper, Total	86	-	84-116	-	
Iron, Total	77	-	61-139	-	
Lead, Total	84	-	82-118	-	
Magnesium, Total	81	-	76-124	-	
Manganese, Total	82	-	82-118	-	
Nickel, Total	85	-	83-117	-	
Potassium, Total	75	-	70-130	-	
Selenium, Total	90	-	79-121	-	
Silver, Total	88	-	80-120	-	
Sodium, Total	90	-	74-126	-	
Thallium, Total	88	-	81-119	-	
Vanadium, Total	84	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1156575-2 SRM Lot Number: D102-540					
Zinc, Total	84	-	81-118	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1156309-3 WG1156309-4 QC Sample: L1835554-02 Client ID: MS Sample												
Mercury, Total	0.095J	0.357	0.572	160	Q	0.512	143	Q	80-120	11		20

Matrix Spike Analysis Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1156575-3 QC Sample: L1831207-26 Client ID: MS Sample									
Aluminum, Total	6420	178	6500	45	Q	-	75-125	-	20
Antimony, Total	0.669J	44.6	40.1	90		-	75-125	-	20
Arsenic, Total	4.41	10.7	13.1	81		-	75-125	-	20
Barium, Total	31.2	178	178	82		-	75-125	-	20
Beryllium, Total	0.370	4.46	4.18	86		-	75-125	-	20
Cadmium, Total	0.185J	4.54	4.35	96		-	75-125	-	20
Calcium, Total	1010	891	1540	59	Q	-	75-125	-	20
Chromium, Total	4.87	17.8	19.6	83		-	75-125	-	20
Cobalt, Total	3.12	44.6	40.1	83		-	75-125	-	20
Copper, Total	22.4	22.3	29.1	30	Q	-	75-125	-	20
Iron, Total	7490	89.1	6020	0	Q	-	75-125	-	20
Lead, Total	63.6	45.4	76.4	28	Q	-	75-125	-	20
Magnesium, Total	559.	891	1220	74	Q	-	75-125	-	20
Manganese, Total	102.	44.6	95.8	0	Q	-	75-125	-	20
Nickel, Total	3.96	44.6	40.8	83		-	75-125	-	20
Potassium, Total	444.	891	1220	87		-	75-125	-	20
Selenium, Total	0.443J	10.7	10.2	95		-	75-125	-	20
Silver, Total	ND	26.7	25.7	96		-	75-125	-	20
Sodium, Total	27.8J	891	840	94		-	75-125	-	20
Thallium, Total	ND	10.7	8.71	81		-	75-125	-	20
Vanadium, Total	10.2	44.6	47.7	84		-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1156575-3 QC Sample: L1831207-26 Client ID: MS Sample									
Zinc, Total	43.8	44.6	68.0	54	Q	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1156575-4 QC Sample: L1831207-26 Client ID: DUP Sample						
Lead, Total	63.6	249	mg/kg	119	Q	20

INORGANICS & MISCELLANEOUS

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01

Date Collected: 09/07/18 14:00

Client ID: REUSE02_COMP01

Date Received: 09/07/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.1		%	0.100	NA	1	-	09/11/18 14:55	121,2540G	AM
Cyanide, Total	ND		mg/kg	1.0	0.21	1	09/08/18 16:54	09/10/18 10:19	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.832	0.166	1	09/11/18 19:15	09/13/18 10:43	1,7196A	NH



Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-02

Date Collected: 09/07/18 14:00

Client ID: REUSE02_GRAB01

Date Received: 09/07/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.3		%	0.100	NA	1	-	09/11/18 14:55	121,2540G	AM



Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

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): 01 Batch: WG1154932-1									
Cyanide, Total	ND	mg/kg	0.97	0.20	1	09/08/18 16:54	09/10/18 10:02	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1155859-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	09/11/18 19:15	09/13/18 10:43	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1154932-2 WG1154932-3								
Cyanide, Total	84		77	Q	80-120	3		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1155859-2								
Chromium, Hexavalent	82		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1154932-4 WG1154932-5 QC Sample: L1835491-01 Client ID: MS Sample												
Cyanide, Total	ND	10	9.3	93		9.0	91		75-125	3		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1155859-4 QC Sample: L1835505-01 Client ID: REUSE02_COMP01												
Chromium, Hexavalent	ND	1230	1300	106		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1155706-1 QC Sample: L1835738-01 Client ID: DUP Sample						
Solids, Total	79.8	85.5	%	7		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1155859-6 QC Sample: L1835505-01 Client ID: REUSE02_COMP01						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 170500202**Lab Number:** L1835505**Project Number:** 170500202**Report Date:** 09/14/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1835505-01A	Glass 500ml/16oz unpreserved	A	N/A	N/A	2.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1835505-01B	Glass 120ml/4oz unpreserved	A	N/A	N/A	2.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1835505-01D	Metals Only-Glass 60mL/2oz unpreserved	A	N/A	N/A	2.5	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)
L1835505-02A	Vial MeOH preserved	A	N/A	N/A	2.5	Y	Absent		NYTCL-8260HLW(14)
L1835505-02B	Vial water preserved	A	N/A	N/A	2.5	Y	Absent	08-SEP-18 16:42	NYTCL-8260HLW(14)
L1835505-02C	Vial water preserved	A	N/A	N/A	2.5	Y	Absent	08-SEP-18 16:42	NYTCL-8260HLW(14)
L1835505-02D	Plastic 2oz unpreserved for TS	A	N/A	N/A	2.5	Y	Absent		TS(7)

Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

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 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 exceedances 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: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



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: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, 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, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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 YORK 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 _____ of _____

Date Rec'd in Lab **9/18/18**

ALPHA Job # **L1835505**

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: **17050202**
 Project Location:
 Project # **17050202**
 (Use Project name as Project #)
 Project Manager: **GREG WYKA**
 ALPHAQuote #:
 Turn-Around Time
 Standard Due Date:
 Rush (only if pre approved) # of Days:

Deliverables

ASP-A ASP-B
 EQUIS (1 File) EQUIS (4 File)
 Other **EMAIL**

Billing Information

Same as Client Info
 PO #

Client Information

Client: **LANGAN**
 Address: **360 WEST 31ST
 2ND FLOOR**
 Phone: **212-479-5400**
 Fax:
 Email: **G.WYKA@LANGAN.COM**

Regulatory Requirement

NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
 Disposal Facility:
 NJ NY
 Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

PAET 375 VOCs											
SVOCS, PCBs, PEST, HECS, METALS (HEAVY METALS), CYANIDE											

Sample Filtration

Done
 Lab to do
Preservation
 Lab to do
 (Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS						Sample Specific Comments	
		Date	Time										
35505-01	REUSE02-COMP01	09/07/18	1400	SOIL	DE								
02	REUSE02-GRAB01	09/07/18	1400	SOIL	DE								

Preservative Code:
 A = None
 B = HCl
 C = HNO₃
 D = H₂SO₄
 E = NaOH
 F = MeOH
 G = NaHSO₄
 H = Na₂S₂O₃
 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									

Relinquished By:	Date/Time	Received By:	Date/Time
DANIELAIDA	09/07 1400	Daniel Fischer AAL	9/7/18 15:00
Daniel Fischer AAL	9/7/18 18:46	Paul Mayella	9/7/18 19:50
Paul Mayella	9/8/18 02:30		9/8/18 0230

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.)

**Underground Storage Tank Soil Sample
Laboratory Reports**



ANALYTICAL REPORT

Lab Number:	L1821412
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST
Project Number:	170500202
Report Date:	06/15/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 300 WEST 122ND ST
Project Number: 170500202

Lab Number: L1821412
Report Date: 06/15/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1821412-01	UST01_B1_4-5	SOIL	300 WEST 122ND ST	06/08/18 12:40	06/08/18
L1821412-02	UST01_B2_4-5	SOIL	300 WEST 122ND ST	06/08/18 12:40	06/08/18

Project Name: 300 WEST 122ND ST
Project Number: 170500202

Lab Number: L1821412
Report Date: 06/15/18

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: 300 WEST 122ND ST
Project Number: 170500202

Lab Number: L1821412
Report Date: 06/15/18

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.

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:



Kara Soroko

Title: Technical Director/Representative

Date: 06/15/18

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST
Project Number: 170500202

Lab Number: L1821412
Report Date: 06/15/18

SAMPLE RESULTS

Lab ID: L1821412-01
Client ID: UST01_B1_4-5
Sample Location: 300 WEST 122ND ST

Date Collected: 06/08/18 12:40
Date Received: 06/08/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/14/18 02:25
Analyst: MV
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	1.2	0.23	1
Toluene	0.36	J	ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.18	1
p/m-Xylene	ND		ug/kg	2.4	0.42	1
o-Xylene	ND		ug/kg	2.4	0.41	1
Xylenes, Total	ND		ug/kg	2.4	0.41	1
n-Butylbenzene	ND		ug/kg	1.2	0.28	1
sec-Butylbenzene	ND		ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	6.0	0.30	1
Isopropylbenzene	ND		ug/kg	1.2	0.24	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	0.17	J	ug/kg	6.0	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	0.22	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

Project Name: 300 WEST 122ND ST
Project Number: 170500202

Lab Number: L1821412
Report Date: 06/15/18

SAMPLE RESULTS

Lab ID: L1821412-02
 Client ID: UST01_B2_4-5
 Sample Location: 300 WEST 122ND ST

Date Collected: 06/08/18 12:40
 Date Received: 06/08/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/14/18 01:57
 Analyst: MV
 Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	1.4	0.26	1
Toluene	ND		ug/kg	2.0	0.26	1
Ethylbenzene	ND		ug/kg	1.4	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.21	1
p/m-Xylene	ND		ug/kg	2.7	0.48	1
o-Xylene	ND		ug/kg	2.7	0.46	1
Xylenes, Total	ND		ug/kg	2.7	0.46	1
n-Butylbenzene	ND		ug/kg	1.4	0.31	1
sec-Butylbenzene	ND		ug/kg	1.4	0.29	1
tert-Butylbenzene	ND		ug/kg	6.8	0.34	1
Isopropylbenzene	ND		ug/kg	1.4	0.26	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.27	1
Naphthalene	0.30	J	ug/kg	6.8	0.19	1
n-Propylbenzene	ND		ug/kg	1.4	0.29	1
1,3,5-Trimethylbenzene	0.24	J	ug/kg	6.8	0.22	1
1,2,4-Trimethylbenzene	0.29	J	ug/kg	6.8	0.25	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: 300 WEST 122ND ST
Project Number: 170500202

Lab Number: L1821412
Report Date: 06/15/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 06/13/18 18:02
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1125779-5					
Benzene	ND		ug/kg	1.0	0.19
Toluene	0.43	J	ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST

Project Number: 170500202

Lab Number: L1821412

Report Date: 06/15/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1125779-3 WG1125779-4								
Benzene	91		89		70-130	2		30
Toluene	108		106		70-130	2		30
Ethylbenzene	108		106		70-130	2		30
Methyl tert butyl ether	88		88		66-130	0		30
p/m-Xylene	110		108		70-130	2		30
o-Xylene	108		106		70-130	2		30
n-Butylbenzene	117		114		70-130	3		30
sec-Butylbenzene	119		116		70-130	3		30
tert-Butylbenzene	121		119		70-130	2		30
Isopropylbenzene	117		114		70-130	3		30
p-Isopropyltoluene	124		122		70-130	2		30
Naphthalene	114		115		70-130	1		30
n-Propylbenzene	114		112		70-130	2		30
1,3,5-Trimethylbenzene	118		116		70-130	2		30
1,2,4-Trimethylbenzene	120		118		70-130	2		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	102		102		70-130
Toluene-d8	110		110		70-130
4-Bromofluorobenzene	102		103		70-130
Dibromofluoromethane	94		95		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND ST
Project Number: 170500202

Lab Number: L1821412
Report Date: 06/15/18

SAMPLE RESULTS

Lab ID: L1821412-01
 Client ID: UST01_B1_4-5
 Sample Location: 300 WEST 122ND ST

Date Collected: 06/08/18 12:40
 Date Received: 06/08/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/14/18 04:56
 Analyst: SZ
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 06/13/18 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	170		ug/kg	140	19.	1
Fluoranthene	5000		ug/kg	110	21.	1
Naphthalene	46	J	ug/kg	180	22.	1
Benzo(a)anthracene	2900		ug/kg	110	20.	1
Benzo(a)pyrene	2300		ug/kg	140	44.	1
Benzo(b)fluoranthene	3100		ug/kg	110	30.	1
Benzo(k)fluoranthene	1100		ug/kg	110	29.	1
Chrysene	2900		ug/kg	110	19.	1
Acenaphthylene	260		ug/kg	140	28.	1
Anthracene	690		ug/kg	110	35.	1
Benzo(ghi)perylene	1500		ug/kg	140	21.	1
Fluorene	150	J	ug/kg	180	18.	1
Phenanthrene	2800		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	470		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	1700		ug/kg	140	25.	1
Pyrene	4900		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	116		23-120
2-Fluorobiphenyl	101		30-120
4-Terphenyl-d14	66		18-120

Project Name: 300 WEST 122ND ST
Project Number: 170500202

Lab Number: L1821412
Report Date: 06/15/18

SAMPLE RESULTS

Lab ID: L1821412-02
 Client ID: UST01_B2_4-5
 Sample Location: 300 WEST 122ND ST

Date Collected: 06/08/18 12:40
 Date Received: 06/08/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/14/18 05:23
 Analyst: SZ
 Percent Solids: 74%

Extraction Method: EPA 3546
 Extraction Date: 06/13/18 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	98	J	ug/kg	180	23.	1
Fluoranthene	3700		ug/kg	130	26.	1
Naphthalene	74	J	ug/kg	220	27.	1
Benzo(a)anthracene	2100		ug/kg	130	25.	1
Benzo(a)pyrene	2100		ug/kg	180	54.	1
Benzo(b)fluoranthene	2600		ug/kg	130	37.	1
Benzo(k)fluoranthene	880		ug/kg	130	36.	1
Chrysene	2200		ug/kg	130	23.	1
Acenaphthylene	290		ug/kg	180	34.	1
Anthracene	450		ug/kg	130	43.	1
Benzo(ghi)perylene	1300		ug/kg	180	26.	1
Fluorene	120	J	ug/kg	220	22.	1
Phenanthrene	1600		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	400		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	1400		ug/kg	180	31.	1
Pyrene	3400		ug/kg	130	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	107		23-120
2-Fluorobiphenyl	94		30-120
4-Terphenyl-d14	73		18-120

Project Name: 300 WEST 122ND ST
Project Number: 170500202

Lab Number: L1821412
Report Date: 06/15/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/13/18 22:39
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 06/13/18 07:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1125357-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	100	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 300 WEST 122ND ST
Project Number: 170500202

Lab Number: L1821412
Report Date: 06/15/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/13/18 22:39
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 06/13/18 07:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1125357-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	104		10-136
4-Terphenyl-d14	91		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST

Lab Number: L1821412

Project Number: 170500202

Report Date: 06/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1125357-2 WG1125357-3								
Acenaphthene	103		94		31-137	9		50
Fluoranthene	108		97		40-140	11		50
Naphthalene	102		92		40-140	10		50
Benzo(a)anthracene	108		97		40-140	11		50
Benzo(a)pyrene	118		107		40-140	10		50
Benzo(b)fluoranthene	114		102		40-140	11		50
Benzo(k)fluoranthene	114		103		40-140	10		50
Chrysene	103		93		40-140	10		50
Acenaphthylene	113		105		40-140	7		50
Anthracene	106		97		40-140	9		50
Benzo(ghi)perylene	122		110		40-140	10		50
Fluorene	109		100		40-140	9		50
Phenanthrene	105		94		40-140	11		50
Dibenzo(a,h)anthracene	128		118		40-140	8		50
Indeno(1,2,3-cd)pyrene	126		114		40-140	10		50
Pyrene	106		97		35-142	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST
Project Number: 170500202

Lab Number: L1821412
Report Date: 06/15/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1125357-2 WG1125357-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	107		94		25-120
Phenol-d6	108		101		10-120
Nitrobenzene-d5	108		95		23-120
2-Fluorobiphenyl	108		100		30-120
2,4,6-Tribromophenol	127		119		10-136
4-Terphenyl-d14	103		97		18-120

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND ST
Project Number: 170500202

Lab Number: L1821412
Report Date: 06/15/18

SAMPLE RESULTS

Lab ID: L1821412-01
Client ID: UST01_B1_4-5
Sample Location: 300 WEST 122ND ST

Date Collected: 06/08/18 12:40
Date Received: 06/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.7		%	0.100	NA	1	-	06/09/18 12:40	121,2540G	RI



Project Name: 300 WEST 122ND ST
Project Number: 170500202

Lab Number: L1821412
Report Date: 06/15/18

SAMPLE RESULTS

Lab ID: L1821412-02
Client ID: UST01_B2_4-5
Sample Location: 300 WEST 122ND ST

Date Collected: 06/08/18 12:40
Date Received: 06/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.6		%	0.100	NA	1	-	06/09/18 12:40	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST
Project Number: 170500202

Lab Number: L1821412
Report Date: 06/15/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1124279-1 QC Sample: L1821391-01 Client ID: DUP Sample						
Solids, Total	83.3	82.8	%	1		20

Project Name: 300 WEST 122ND ST
Project Number: 170500202

Serial_No:06151814:41
Lab Number: L1821412
Report Date: 06/15/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1821412-01A	Vial MeOH preserved	A	NA		4.0	Y	Absent		NYTCL-8260HLW(14)
L1821412-01B	Vial water preserved	A	NA		4.0	Y	Absent	09-JUN-18 08:51	NYTCL-8260HLW(14)
L1821412-01C	Vial water preserved	A	NA		4.0	Y	Absent	09-JUN-18 08:51	NYTCL-8260HLW(14)
L1821412-01D	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L1821412-01E	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14)
L1821412-02A	Vial MeOH preserved	A	NA		4.0	Y	Absent		NYTCL-8260HLW(14)
L1821412-02B	Vial water preserved	A	NA		4.0	Y	Absent	09-JUN-18 08:51	NYTCL-8260HLW(14)
L1821412-02C	Vial water preserved	A	NA		4.0	Y	Absent	09-JUN-18 08:51	NYTCL-8260HLW(14)
L1821412-02D	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L1821412-02E	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND ST
Project Number: 170500202

Lab Number: L1821412
Report Date: 06/15/18

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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST
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Data Qualifiers

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 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: 300 WEST 122ND ST
Project Number: 170500202

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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.



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: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, 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, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.**

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 YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	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		Date Rec'd in Lab	6/9/18	ALPHA Job #	L1821412				
		of	of	Project Information Project Name: <u>300 WEST 122ND ST</u> Project Location: <u>.</u> Project # <u>170 500202</u> (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO #				
Client Information Client: <u>LANGAN</u> Address: <u>360 WEST 31ST ST</u> Phone: <u>212-479-5400</u> Fax: _____ Email: <u>G.WYCKA@LANGAN.COM</u>		Project Manager <u>GREG WYCKA</u> ALPHAQuote #: _____ Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: _____ Rush (only if pre approved) <input type="checkbox"/> # of Days: _____		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input checked="" type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:						
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: _____ Please specify Metals or TAL. _____					ANALYSIS			Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)				
ALPHA Lab ID (Lab Use Only) Sample ID Collection Date Time Sample Matrix Sampler's Initials					VOC'S, SVOC'S			Sample Specific Comments				
2141201 02					UST01-B1-4-5 06/08/18 12:40 SOIL DE		X					
UST01-B2-4-5 06/08/18 12:40 SOIL DE					X							
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		
Relinquished By: _____ Date/Time: _____					Received By: _____ Date/Time: _____							
[Signature] 06/08/18 12:45					[Signature] 06/08/18 12:45							
[Signature] 06/08/18 20:06					[Signature] 06/14/2018							
[Signature] 6/9/18 0145					[Signature] 6/9/18 0675							
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.)												



ANALYTICAL REPORT

Lab Number:	L1823575
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500201
Report Date:	06/28/18

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500201

Lab Number: L1823575
Report Date: 06/28/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1823575-01	UST02_B1_8	SOIL	HARLEM, NY	06/20/18 14:28	06/21/18
L1823575-02	UST02_B2_8	SOIL	HARLEM, NY	06/20/18 14:30	06/21/18

Project Name: 300 WEST 122ND ST.
Project Number: 170500201

Lab Number: L1823575
Report Date: 06/28/18

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: 300 WEST 122ND ST.
Project Number: 170500201

Lab Number: L1823575
Report Date: 06/28/18

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.

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: 06/28/18

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500201

Lab Number: L1823575
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823575-01
 Client ID: UST02_B1_8
 Sample Location: HARLEM, NY

Date Collected: 06/20/18 14:28
 Date Received: 06/21/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/27/18 02:58
 Analyst: MV
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	0.66	J	ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.66	1
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	98		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500201

Lab Number: L1823575
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823575-02
 Client ID: UST02_B2_8
 Sample Location: HARLEM, NY

Date Collected: 06/20/18 14:30
 Date Received: 06/21/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/27/18 03:24
 Analyst: MV
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	0.70	J	ug/kg	0.97	0.53	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.20	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	0.85	J	ug/kg	0.97	0.28	1
Xylenes, Total	0.85	J	ug/kg	0.97	0.28	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
Isopropylbenzene	ND		ug/kg	0.97	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.10	1
Naphthalene	1.8	J	ug/kg	3.9	0.63	1
n-Propylbenzene	ND		ug/kg	0.97	0.16	1
1,3,5-Trimethylbenzene	0.92	J	ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	1.1	J	ug/kg	1.9	0.32	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	100		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500201

Lab Number: L1823575
Report Date: 06/28/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 06/26/18 20:54
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1130182-5					
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1823575

Project Number: 170500201

Report Date: 06/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1130182-3 WG1130182-4								
Benzene	110		115		70-130	4		30
Toluene	102		103		70-130	1		30
Ethylbenzene	98		100		70-130	2		30
Methyl tert butyl ether	100		101		66-130	1		30
p/m-Xylene	102		106		70-130	4		30
o-Xylene	100		103		70-130	3		30
n-Butylbenzene	107		108		70-130	1		30
sec-Butylbenzene	108		108		70-130	0		30
tert-Butylbenzene	104		104		70-130	0		30
Isopropylbenzene	106		106		70-130	0		30
p-Isopropyltoluene	108		107		70-130	1		30
Naphthalene	98		98		70-130	0		30
n-Propylbenzene	106		105		70-130	1		30
1,3,5-Trimethylbenzene	103		102		70-130	1		30
1,2,4-Trimethylbenzene	104		103		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		89		70-130
Toluene-d8	94		94		70-130
4-Bromofluorobenzene	108		107		70-130
Dibromofluoromethane	97		98		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500201

Lab Number: L1823575
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823575-01
 Client ID: UST02_B1_8
 Sample Location: HARLEM, NY

Date Collected: 06/20/18 14:28
 Date Received: 06/21/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/28/18 12:33
 Analyst: EK
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 06/27/18 22:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	130	J	ug/kg	150	19.	1
Fluoranthene	5000		ug/kg	110	21.	1
Naphthalene	150	J	ug/kg	180	22.	1
Benzo(a)anthracene	3700		ug/kg	110	20.	1
Benzo(a)pyrene	3400		ug/kg	150	44.	1
Benzo(b)fluoranthene	4400		ug/kg	110	31.	1
Benzo(k)fluoranthene	1500		ug/kg	110	29.	1
Chrysene	3600		ug/kg	110	19.	1
Acenaphthylene	1300		ug/kg	150	28.	1
Anthracene	1100		ug/kg	110	36.	1
Benzo(ghi)perylene	2100		ug/kg	150	21.	1
Fluorene	290		ug/kg	180	18.	1
Phenanthrene	2400		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	630		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	2300		ug/kg	150	25.	1
Pyrene	4800		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	79		30-120
4-Terphenyl-d14	78		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500201

Lab Number: L1823575
Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823575-02
 Client ID: UST02_B2_8
 Sample Location: HARLEM, NY

Date Collected: 06/20/18 14:30
 Date Received: 06/21/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/28/18 12:58
 Analyst: EK
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 06/27/18 22:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	170		ug/kg	150	20.	1
Fluoranthene	6000		ug/kg	110	22.	1
Naphthalene	170	J	ug/kg	190	23.	1
Benzo(a)anthracene	4100		ug/kg	110	21.	1
Benzo(a)pyrene	3800		ug/kg	150	46.	1
Benzo(b)fluoranthene	5000		ug/kg	110	32.	1
Benzo(k)fluoranthene	1600		ug/kg	110	30.	1
Chrysene	3900		ug/kg	110	20.	1
Acenaphthylene	1100		ug/kg	150	29.	1
Anthracene	1200		ug/kg	110	37.	1
Benzo(ghi)perylene	2600		ug/kg	150	22.	1
Fluorene	240		ug/kg	190	18.	1
Phenanthrene	2800		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	690		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	2700		ug/kg	150	26.	1
Pyrene	5800		ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	79		30-120
4-Terphenyl-d14	80		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500201

Lab Number: L1823575
Report Date: 06/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/28/18 07:49
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 06/27/18 22:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1130495-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 300 WEST 122ND ST.**Lab Number:** L1823575**Project Number:** 170500201**Report Date:** 06/28/18**Method Blank Analysis
Batch Quality Control**Analytical Method: 1,8270D
Analytical Date: 06/28/18 07:49
Analyst: ALSExtraction Method: EPA 3546
Extraction Date: 06/27/18 22:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1130495-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	93		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1823575

Project Number: 170500201

Report Date: 06/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1130495-2 WG1130495-3								
Acenaphthene	46		76		31-137	49		50
Fluoranthene	46		77		40-140	50		50
Naphthalene	46		76		40-140	49		50
Benzo(a)anthracene	48		77		40-140	46		50
Benzo(a)pyrene	45		75		40-140	50		50
Benzo(b)fluoranthene	44		75		40-140	52	Q	50
Benzo(k)fluoranthene	45		73		40-140	47		50
Chrysene	47		76		40-140	47		50
Acenaphthylene	48		82		40-140	52	Q	50
Anthracene	47		78		40-140	50		50
Benzo(ghi)perylene	46		74		40-140	47		50
Fluorene	47		77		40-140	48		50
Phenanthrene	47		76		40-140	47		50
Dibenzo(a,h)anthracene	46		74		40-140	47		50
Indeno(1,2,3-cd)pyrene	45		76		40-140	51	Q	50
Pyrene	46		76		35-142	49		50

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500201

Lab Number: L1823575
Report Date: 06/28/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1130495-2 WG1130495-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	43		72		25-120
Phenol-d6	43		73		10-120
Nitrobenzene-d5	43		73		23-120
2-Fluorobiphenyl	43		73		30-120
2,4,6-Tribromophenol	35		60		10-136
4-Terphenyl-d14	44		74		18-120

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND ST.

Project Number: 170500201

Lab Number: L1823575

Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823575-01

Client ID: UST02_B1_8

Sample Location: HARLEM, NY

Date Collected: 06/20/18 14:28

Date Received: 06/21/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.7		%	0.100	NA	1	-	06/22/18 16:29	121,2540G	RI



Project Name: 300 WEST 122ND ST.

Project Number: 170500201

Lab Number: L1823575

Report Date: 06/28/18

SAMPLE RESULTS

Lab ID: L1823575-02

Client ID: UST02_B2_8

Sample Location: HARLEM, NY

Date Collected: 06/20/18 14:30

Date Received: 06/21/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	06/22/18 16:29	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500201

Lab Number: L1823575

Report Date: 06/28/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1128875-1 QC Sample: L1823527-21 Client ID: DUP Sample						
Solids, Total	99.9	99.9	%	0		20

Project Name: 300 WEST 122ND ST.**Lab Number:** L1823575**Project Number:** 170500201**Report Date:** 06/28/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1823575-01A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L1823575-01B	Vial water preserved	A	NA		3.4	Y	Absent	22-JUN-18 07:26	NYTCL-8260HLW(14)
L1823575-01C	Vial water preserved	A	NA		3.4	Y	Absent	22-JUN-18 07:26	NYTCL-8260HLW(14)
L1823575-01D	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)
L1823575-01E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14)
L1823575-02A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L1823575-02B	Vial water preserved	A	NA		3.4	Y	Absent	22-JUN-18 07:26	NYTCL-8260HLW(14)
L1823575-02C	Vial water preserved	A	NA		3.4	Y	Absent	22-JUN-18 07:26	NYTCL-8260HLW(14)
L1823575-02D	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)
L1823575-02E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14)

Project Name: 300 WEST 122ND ST.
Project Number: 170500201

Lab Number: L1823575
Report Date: 06/28/18

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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500201

Lab Number: L1823575
Report Date: 06/28/18

Data Qualifiers

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 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: 300 WEST 122ND ST.
Project Number: 170500201

Lab Number: L1823575
Report Date: 06/28/18

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.



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: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, 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, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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.

Soil - UST02 EMPHNTS

 NEW YORK 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	Date Rec'd in Lab	6/21/18	ALPHA Job #	4B23575
		of	1				
Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information Project Name: 300 WEST 122ND ST. Project Location: HARLEM, NY Project #: 170500201		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info <input type="checkbox"/> Other		
Client Information Client: LANZAN, INC Address: Phone: Fax: Email: GREG WYKA		(Use Project name as Project #) <input type="checkbox"/> Project Manager: GREG WYKA ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Rush (only if pre approved) <input type="checkbox"/>		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:	
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.				ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)	
				NY CP-SI VIALS NY CP-SI VIALS		Total Bottles	
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials		
23575-01 -02	UST02-B1-8 UST02-B2-8	6/20/18 I	14:28 14:30	Soil I	AW L	X X	X X
				Relinquished By: [Signature] Date/Time: 6/21/18 15:45		Received By: [Signature] Date/Time: 6/21/18 15:45	
				Relinquished By: [Signature] Date/Time: 6/21/18 16:48		Received By: D. Santos AAL Date/Time: 6/21/18 1800	
				Relinquished By: [Signature] Date/Time: 6/21/18 23:15		Received By: [Signature] Date/Time: 6/21/18 2715	
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.)							



ANALYTICAL REPORT

Lab Number:	L1825132
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	170500202
Project Number:	170500202
Report Date:	07/10/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1825132-01	UST03_N_SW_8-9	SOIL	300 WEST 122ND ST.	07/02/18 11:00	07/02/18
L1825132-02	UST03_W_SW_7-8	SOIL	300 WEST 122ND ST.	07/02/18 11:20	07/02/18
L1825132-03	UST03_S_SW_7-8	SOIL	300 WEST 122ND ST.	07/02/18 11:10	07/02/18
L1825132-04	UST03_B01_9-10	SOIL	300 WEST 122ND ST.	07/02/18 11:30	07/02/18
L1825132-05	UST03_B02_9-10	SOIL	300 WEST 122ND ST.	07/02/18 11:40	07/02/18

Project Name: 170500202**Lab Number:** L1825132**Project Number:** 170500202**Report Date:** 07/10/18

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: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

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.

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: 07/10/18

ORGANICS

VOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

SAMPLE RESULTS

Lab ID: L1825132-01
 Client ID: UST03_N_SW_8-9
 Sample Location: 300 WEST 122ND ST.

Date Collected: 07/02/18 11:00
 Date Received: 07/02/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/08/18 22:31
 Analyst: JC
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	33	11.	1
Toluene	51	J	ug/kg	66	36.	1
Ethylbenzene	38	J	ug/kg	66	9.3	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	590		ug/kg	130	37.	1
o-Xylene	240		ug/kg	66	19.	1
Xylenes, Total	830		ug/kg	66	19.	1
n-Butylbenzene	56	J	ug/kg	66	11.	1
sec-Butylbenzene	23	J	ug/kg	66	9.6	1
tert-Butylbenzene	ND		ug/kg	130	7.8	1
Isopropylbenzene	26	J	ug/kg	66	7.2	1
p-Isopropyltoluene	11	J	ug/kg	66	7.2	1
Naphthalene	150	J	ug/kg	260	43.	1
n-Propylbenzene	97		ug/kg	66	11.	1
1,3,5-Trimethylbenzene	260		ug/kg	130	13.	1
1,2,4-Trimethylbenzene	770		ug/kg	130	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	91		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

SAMPLE RESULTS

Lab ID: L1825132-02
 Client ID: UST03_W_SW_7-8
 Sample Location: 300 WEST 122ND ST.

Date Collected: 07/02/18 11:20
 Date Received: 07/02/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/08/18 20:49
 Analyst: JC
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.76	0.25	1
Toluene	25		ug/kg	1.5	0.83	1
Ethylbenzene	27		ug/kg	1.5	0.22	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.31	1
p/m-Xylene	420		ug/kg	3.0	0.86	1
o-Xylene	160		ug/kg	1.5	0.44	1
Xylenes, Total	580		ug/kg	1.5	0.44	1
n-Butylbenzene	23		ug/kg	1.5	0.26	1
sec-Butylbenzene	12		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.0	0.18	1
Isopropylbenzene	20		ug/kg	1.5	0.17	1
p-Isopropyltoluene	4.4		ug/kg	1.5	0.17	1
Naphthalene	52		ug/kg	6.1	0.99	1
n-Propylbenzene	65		ug/kg	1.5	0.26	1
1,3,5-Trimethylbenzene	150		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	460		ug/kg	3.0	0.51	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	92		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

SAMPLE RESULTS

Lab ID: L1825132-03
 Client ID: UST03_S_SW_7-8
 Sample Location: 300 WEST 122ND ST.

Date Collected: 07/02/18 11:10
 Date Received: 07/02/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/08/18 21:15
 Analyst: JC
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	0.20	J	ug/kg	0.56	0.18	1
Toluene	16		ug/kg	1.1	0.61	1
Ethylbenzene	14		ug/kg	1.1	0.16	1
Methyl tert butyl ether	0.27	J	ug/kg	2.2	0.22	1
p/m-Xylene	220		ug/kg	2.2	0.62	1
o-Xylene	89		ug/kg	1.1	0.32	1
Xylenes, Total	310		ug/kg	1.1	0.32	1
n-Butylbenzene	12		ug/kg	1.1	0.19	1
sec-Butylbenzene	6.2		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
Isopropylbenzene	11		ug/kg	1.1	0.12	1
p-Isopropyltoluene	2.3		ug/kg	1.1	0.12	1
Naphthalene	38		ug/kg	4.5	0.72	1
n-Propylbenzene	32		ug/kg	1.1	0.19	1
1,3,5-Trimethylbenzene	83		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	240		ug/kg	2.2	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	87		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

SAMPLE RESULTS

Lab ID: L1825132-04
Client ID: UST03_B01_9-10
Sample Location: 300 WEST 122ND ST.

Date Collected: 07/02/18 11:30
Date Received: 07/02/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/08/18 21:40
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	1.0		ug/kg	0.98	0.53	1
Ethylbenzene	0.51	J	ug/kg	0.98	0.14	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	8.9		ug/kg	2.0	0.55	1
o-Xylene	4.3		ug/kg	0.98	0.28	1
Xylenes, Total	13		ug/kg	0.98	0.28	1
n-Butylbenzene	0.22	J	ug/kg	0.98	0.16	1
sec-Butylbenzene	0.15	J	ug/kg	0.98	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
Isopropylbenzene	0.26	J	ug/kg	0.98	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.11	1
Naphthalene	ND		ug/kg	3.9	0.64	1
n-Propylbenzene	0.76	J	ug/kg	0.98	0.17	1
1,3,5-Trimethylbenzene	2.3		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	6.7		ug/kg	2.0	0.33	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	94		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

SAMPLE RESULTS

Lab ID: L1825132-05
 Client ID: UST03_B02_9-10
 Sample Location: 300 WEST 122ND ST.

Date Collected: 07/02/18 11:40
 Date Received: 07/02/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/08/18 22:06
 Analyst: JC
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.40	0.13	1
Toluene	2.1		ug/kg	0.80	0.43	1
Ethylbenzene	1.5		ug/kg	0.80	0.11	1
Methyl tert butyl ether	0.19	J	ug/kg	1.6	0.16	1
p/m-Xylene	21		ug/kg	1.6	0.44	1
o-Xylene	10		ug/kg	0.80	0.23	1
Xylenes, Total	31		ug/kg	0.80	0.23	1
n-Butylbenzene	0.92		ug/kg	0.80	0.13	1
sec-Butylbenzene	0.57	J	ug/kg	0.80	0.12	1
tert-Butylbenzene	ND		ug/kg	1.6	0.09	1
Isopropylbenzene	0.90		ug/kg	0.80	0.09	1
p-Isopropyltoluene	0.27	J	ug/kg	0.80	0.09	1
Naphthalene	3.3		ug/kg	3.2	0.52	1
n-Propylbenzene	2.7		ug/kg	0.80	0.14	1
1,3,5-Trimethylbenzene	10		ug/kg	1.6	0.15	1
1,2,4-Trimethylbenzene	24		ug/kg	1.6	0.26	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	92		70-130

Project Name: 170500202

Lab Number: L1825132

Project Number: 170500202

Report Date: 07/10/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/08/18 14:00
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-05 Batch: WG1133786-5					
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Methyl tert butyl ether	0.92	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Tentatively Identified Compounds

Total TIC Compounds	5.54	J	ug/kg
Cyclotrisiloxane, Hexamethyl-	3.22	NJ	ug/kg
Unknown	2.32	J	ug/kg

Project Name: 170500202

Lab Number: L1825132

Project Number: 170500202

Report Date: 07/10/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 07/08/18 14:00
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-05 Batch: WG1133786-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	90		70-130

Project Name: 170500202

Lab Number: L1825132

Project Number: 170500202

Report Date: 07/10/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 07/08/18 14:00
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1133813-5					
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Methyl tert butyl ether	46	J	ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
n-Propylbenzene	ND		ug/kg	50	8.6
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	90		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1825132

Project Number: 170500202

Report Date: 07/10/18

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-05 Batch: WG1133786-3 WG1133786-4									
Benzene	101		98		70-130		3		30
Toluene	102		96		70-130		6		30
Ethylbenzene	102		98		70-130		4		30
Methyl tert butyl ether	99		98		66-130		1		30
p/m-Xylene	98		95		70-130		3		30
o-Xylene	98		95		70-130		3		30
n-Butylbenzene	112		106		70-130		6		30
sec-Butylbenzene	107		102		70-130		5		30
tert-Butylbenzene	102		97		70-130		5		30
Isopropylbenzene	106		101		70-130		5		30
p-Isopropyltoluene	103		98		70-130		5		30
Naphthalene	98		95		70-130		3		30
n-Propylbenzene	112		106		70-130		6		30
1,3,5-Trimethylbenzene	105		100		70-130		5		30
1,2,4-Trimethylbenzene	104		99		70-130		5		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	105		105		70-130
Toluene-d8	105		104		70-130
4-Bromofluorobenzene	110		108		70-130
Dibromofluoromethane	95		95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1825132

Project Number: 170500202

Report Date: 07/10/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1133813-3 WG1133813-4								
Benzene	101		98		70-130	3		30
Toluene	102		96		70-130	6		30
Ethylbenzene	102		98		70-130	4		30
Methyl tert butyl ether	99		98		66-130	1		30
p/m-Xylene	98		95		70-130	3		30
o-Xylene	98		95		70-130	3		30
n-Butylbenzene	112		106		70-130	6		30
sec-Butylbenzene	107		102		70-130	5		30
tert-Butylbenzene	102		97		70-130	5		30
Isopropylbenzene	106		101		70-130	5		30
p-Isopropyltoluene	103		98		70-130	5		30
Naphthalene	98		95		70-130	3		30
n-Propylbenzene	112		106		70-130	6		30
1,3,5-Trimethylbenzene	105		100		70-130	5		30
1,2,4-Trimethylbenzene	104		99		70-130	5		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	105		104		70-130
Toluene-d8	105		104		70-130
4-Bromofluorobenzene	110		108		70-130
Dibromofluoromethane	95		95		70-130

SEMIVOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

SAMPLE RESULTS

Lab ID: L1825132-01
 Client ID: UST03_N_SW_8-9
 Sample Location: 300 WEST 122ND ST.

Date Collected: 07/02/18 11:00
 Date Received: 07/02/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/09/18 18:36
 Analyst: RC
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 07/07/18 11:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	56	J	ug/kg	160	21.	1
Fluoranthene	1700		ug/kg	120	23.	1
Naphthalene	67	J	ug/kg	200	25.	1
Benzo(a)anthracene	1000		ug/kg	120	23.	1
Benzo(a)pyrene	930		ug/kg	160	49.	1
Benzo(b)fluoranthene	1200		ug/kg	120	34.	1
Benzo(k)fluoranthene	420		ug/kg	120	32.	1
Chrysene	940		ug/kg	120	21.	1
Acenaphthylene	180		ug/kg	160	31.	1
Anthracene	300		ug/kg	120	39.	1
Benzo(ghi)perylene	580		ug/kg	160	24.	1
Fluorene	76	J	ug/kg	200	20.	1
Phenanthrene	840		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	160		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	620		ug/kg	160	28.	1
Pyrene	1600		ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	103		23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	77		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

SAMPLE RESULTS

Lab ID: L1825132-02
 Client ID: UST03_W_SW_7-8
 Sample Location: 300 WEST 122ND ST.

Date Collected: 07/02/18 11:20
 Date Received: 07/02/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/09/18 19:01
 Analyst: RC
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 07/07/18 11:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	37	J	ug/kg	150	20.	1
Fluoranthene	730		ug/kg	120	22.	1
Naphthalene	51	J	ug/kg	190	24.	1
Benzo(a)anthracene	350		ug/kg	120	22.	1
Benzo(a)pyrene	320		ug/kg	150	47.	1
Benzo(b)fluoranthene	400		ug/kg	120	32.	1
Benzo(k)fluoranthene	140		ug/kg	120	31.	1
Chrysene	330		ug/kg	120	20.	1
Acenaphthylene	100	J	ug/kg	150	30.	1
Anthracene	160		ug/kg	120	38.	1
Benzo(ghi)perylene	190		ug/kg	150	23.	1
Fluorene	84	J	ug/kg	190	19.	1
Phenanthrene	560		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	52	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	210		ug/kg	150	27.	1
Pyrene	620		ug/kg	120	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	72		30-120
4-Terphenyl-d14	67		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

SAMPLE RESULTS

Lab ID: L1825132-03
 Client ID: UST03_S_SW_7-8
 Sample Location: 300 WEST 122ND ST.

Date Collected: 07/02/18 11:10
 Date Received: 07/02/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/09/18 19:27
 Analyst: RC
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 07/07/18 11:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	87	J	ug/kg	160	21.	1
Fluoranthene	4000		ug/kg	120	23.	1
Naphthalene	93	J	ug/kg	200	24.	1
Benzo(a)anthracene	2200		ug/kg	120	22.	1
Benzo(a)pyrene	2200		ug/kg	160	49.	1
Benzo(b)fluoranthene	2900		ug/kg	120	34.	1
Benzo(k)fluoranthene	880		ug/kg	120	32.	1
Chrysene	2200		ug/kg	120	21.	1
Acenaphthylene	370		ug/kg	160	31.	1
Anthracene	620		ug/kg	120	39.	1
Benzo(ghi)perylene	1400		ug/kg	160	24.	1
Fluorene	140	J	ug/kg	200	19.	1
Phenanthrene	1800		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	340		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	1500		ug/kg	160	28.	1
Pyrene	3700		ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	66		30-120
4-Terphenyl-d14	56		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

SAMPLE RESULTS

Lab ID: L1825132-04
 Client ID: UST03_B01_9-10
 Sample Location: 300 WEST 122ND ST.

Date Collected: 07/02/18 11:30
 Date Received: 07/02/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/09/18 19:52
 Analyst: RC
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 07/07/18 11:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	150	20.	1
Fluoranthene	6500		ug/kg	110	22.	1
Naphthalene	120	J	ug/kg	190	23.	1
Benzo(a)anthracene	3000		ug/kg	110	21.	1
Benzo(a)pyrene	2900		ug/kg	150	46.	1
Benzo(b)fluoranthene	3900		ug/kg	110	32.	1
Benzo(k)fluoranthene	1400		ug/kg	110	30.	1
Chrysene	3300		ug/kg	110	20.	1
Acenaphthylene	770		ug/kg	150	29.	1
Anthracene	850		ug/kg	110	37.	1
Benzo(ghi)perylene	1700		ug/kg	150	22.	1
Fluorene	220		ug/kg	190	18.	1
Phenanthrene	2900		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	440		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	2000		ug/kg	150	26.	1
Pyrene	5600		ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	60		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

SAMPLE RESULTS

Lab ID: L1825132-05
Client ID: UST03_B02_9-10
Sample Location: 300 WEST 122ND ST.

Date Collected: 07/02/18 11:40
Date Received: 07/02/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/09/18 20:17
Analyst: RC
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 07/07/18 11:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	700		ug/kg	150	19.	1
Fluoranthene	14000	E	ug/kg	110	21.	1
Naphthalene	200		ug/kg	180	22.	1
Benzo(a)anthracene	6800		ug/kg	110	21.	1
Benzo(a)pyrene	5900		ug/kg	150	45.	1
Benzo(b)fluoranthene	7800	E	ug/kg	110	31.	1
Benzo(k)fluoranthene	2500		ug/kg	110	30.	1
Chrysene	6600		ug/kg	110	19.	1
Acenaphthylene	940		ug/kg	150	29.	1
Anthracene	3200		ug/kg	110	36.	1
Benzo(ghi)perylene	3300		ug/kg	150	22.	1
Fluorene	1100		ug/kg	180	18.	1
Phenanthrene	12000	E	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	900		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	3800		ug/kg	150	26.	1
Pyrene	12000	E	ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	101		23-120
2-Fluorobiphenyl	80		30-120
4-Terphenyl-d14	70		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

SAMPLE RESULTS

Lab ID: L1825132-05 D
 Client ID: UST03_B02_9-10
 Sample Location: 300 WEST 122ND ST.

Date Collected: 07/02/18 11:40
 Date Received: 07/02/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/10/18 12:08
 Analyst: RC
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 07/07/18 11:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	11000		ug/kg	440	85.	4
Benzo(b)fluoranthene	5600		ug/kg	440	120	4
Phenanthrene	9600		ug/kg	440	90.	4
Pyrene	9700		ug/kg	440	74.	4

Project Name: 170500202

Lab Number: L1825132

Project Number: 170500202

Report Date: 07/10/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 07/09/18 12:15
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 07/07/18 11:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1133411-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 170500202

Lab Number: L1825132

Project Number: 170500202

Report Date: 07/10/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 07/09/18 12:15
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 07/07/18 11:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1133411-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	96		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1825132

Report Date: 07/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1133411-2 WG1133411-3								
Acenaphthene	86		72		31-137	18		50
Fluoranthene	88		73		40-140	19		50
Naphthalene	83		68		40-140	20		50
Benzo(a)anthracene	86		71		40-140	19		50
Benzo(a)pyrene	88		73		40-140	19		50
Benzo(b)fluoranthene	86		73		40-140	16		50
Benzo(k)fluoranthene	86		70		40-140	21		50
Chrysene	85		72		40-140	17		50
Acenaphthylene	86		72		40-140	18		50
Anthracene	88		74		40-140	17		50
Benzo(ghi)perylene	85		70		40-140	19		50
Fluorene	87		73		40-140	18		50
Phenanthrene	88		73		40-140	19		50
Dibenzo(a,h)anthracene	83		70		40-140	17		50
Indeno(1,2,3-cd)pyrene	84		70		40-140	18		50
Pyrene	87		72		35-142	19		50

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1133411-2 WG1133411-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	95		78		25-120
Phenol-d6	97		82		10-120
Nitrobenzene-d5	104		88		23-120
2-Fluorobiphenyl	85		71		30-120
2,4,6-Tribromophenol	86		72		10-136
4-Terphenyl-d14	93		77		18-120

INORGANICS & MISCELLANEOUS

Project Name: 170500202

Lab Number: L1825132

Project Number: 170500202

Report Date: 07/10/18

SAMPLE RESULTS

Lab ID: L1825132-01

Date Collected: 07/02/18 11:00

Client ID: UST03_N_SW_8-9

Date Received: 07/02/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.2		%	0.100	NA	1	-	07/03/18 10:43	121,2540G	RI



Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

SAMPLE RESULTS

Lab ID: L1825132-02
Client ID: UST03_W_SW_7-8
Sample Location: 300 WEST 122ND ST.

Date Collected: 07/02/18 11:20
Date Received: 07/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.0		%	0.100	NA	1	-	07/03/18 10:43	121,2540G	RI



Project Name: 170500202

Lab Number: L1825132

Project Number: 170500202

Report Date: 07/10/18

SAMPLE RESULTS

Lab ID: L1825132-03

Date Collected: 07/02/18 11:10

Client ID: UST03_S_SW_7-8

Date Received: 07/02/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.1		%	0.100	NA	1	-	07/03/18 10:43	121,2540G	RI



Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

SAMPLE RESULTS

Lab ID: L1825132-04
Client ID: UST03_B01_9-10
Sample Location: 300 WEST 122ND ST.

Date Collected: 07/02/18 11:30
Date Received: 07/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	07/03/18 10:43	121,2540G	RI



Project Name: 170500202

Lab Number: L1825132

Project Number: 170500202

Report Date: 07/10/18

SAMPLE RESULTS

Lab ID: L1825132-05

Date Collected: 07/02/18 11:40

Client ID: UST03_B02_9-10

Date Received: 07/02/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

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	-	07/03/18 10:43	121,2540G	RI



Lab Duplicate Analysis
Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1825132

Report Date: 07/10/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1132195-1 QC Sample: L1825218-01 Client ID: DUP Sample						
Solids, Total	89.8	89.6	%	0		20

Project Name: 170500202**Lab Number:** L1825132**Project Number:** 170500202**Report Date:** 07/10/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1825132-01A	Vial MeOH preserved	A	NA		2.4	Y	Absent		NYTCL-8260HLW(14)
L1825132-01B	Vial water preserved	A	NA		2.4	Y	Absent	03-JUL-18 07:17	NYTCL-8260HLW(14)
L1825132-01C	Vial water preserved	A	NA		2.4	Y	Absent	03-JUL-18 07:17	NYTCL-8260HLW(14)
L1825132-01D	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1825132-01E	Glass 120ml/4oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14)
L1825132-02A	Vial MeOH preserved	A	NA		2.4	Y	Absent		NYTCL-8260HLW(14)
L1825132-02B	Vial water preserved	A	NA		2.4	Y	Absent	03-JUL-18 07:17	NYTCL-8260HLW(14)
L1825132-02C	Vial water preserved	A	NA		2.4	Y	Absent	03-JUL-18 07:17	NYTCL-8260HLW(14)
L1825132-02D	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1825132-02E	Glass 120ml/4oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14)
L1825132-03A	Vial MeOH preserved	A	NA		2.4	Y	Absent		NYTCL-8260HLW(14)
L1825132-03B	Vial water preserved	A	NA		2.4	Y	Absent	03-JUL-18 07:17	NYTCL-8260HLW(14)
L1825132-03C	Vial water preserved	A	NA		2.4	Y	Absent	03-JUL-18 07:17	NYTCL-8260HLW(14)
L1825132-03D	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1825132-03E	Glass 120ml/4oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14)
L1825132-04A	Vial MeOH preserved	A	NA		2.4	Y	Absent		NYTCL-8260HLW(14)
L1825132-04B	Vial water preserved	A	NA		2.4	Y	Absent	03-JUL-18 07:17	NYTCL-8260HLW(14)
L1825132-04C	Vial water preserved	A	NA		2.4	Y	Absent	03-JUL-18 07:17	NYTCL-8260HLW(14)
L1825132-04D	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1825132-04E	Glass 120ml/4oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14)
L1825132-05A	Vial MeOH preserved	A	NA		2.4	Y	Absent		NYTCL-8260HLW(14)
L1825132-05B	Vial water preserved	A	NA		2.4	Y	Absent	03-JUL-18 07:17	NYTCL-8260HLW(14)
L1825132-05C	Vial water preserved	A	NA		2.4	Y	Absent	03-JUL-18 07:17	NYTCL-8260HLW(14)

Project Name: 170500202

Project Number: 170500202

Serial_No:07101814:02

Lab Number: L1825132

Report Date: 07/10/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1825132-05D	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1825132-05E	Glass 120ml/4oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14)

Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

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

Report Format: DU Report with 'J' Qualifiers



Project Name: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

Data Qualifiers

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 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: 170500202
Project Number: 170500202

Lab Number: L1825132
Report Date: 07/10/18

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.



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: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, 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, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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 YORK 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	Date Rec'd in Lab	ALPHA Job #	
		of	7/2/18	1825132	
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	Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other EMAIL		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #	
Client Information Client: LANGAN Address: 360 WEST 2nd ST 6th FLOOR Phone: 212-479-5400 Fax: Email: GWYLA@LANGAN.COM		Project Information Project Name: 170500202 Project Location: 300 WEST 122nd ST Project # 170500202 (Use Project name as Project #) <input checked="" type="checkbox"/>		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input checked="" type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		ANALYSIS			
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments:		CR-51 VOLS, SUCES		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)	
Please specify Metals or TAL.		Sample Specific Comments			
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Matrix	Sampler's Initials	
25132-01	UST03-N-SW-6-9	07/02/18	11:00	SOIL DE	
02	UST03-W-SW-7-8	07/02/18	11:20	SOIL DE	
03	UST03-SW-7-8	07/02/18	11:10	SOIL DE	
04	UST03-B01-9-10	07/02/18	11:30	SOIL DE	
05	UST03-B02-9-10	07/02/18	11:40	SOIL DE	
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 *E = Zn Ac/NaOH 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			
Relinquished By:		Date/Time		Received By:	
DANIEL EIDA		7/2/18		TONDAAL	
DANIEL EIDA		7/2/18 1420		D. Santos AAL	
D. Santos AAL		7/2/18 2230		Date/Time 7/2/18 1300 7/2/18 1800	

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.)



ANALYTICAL REPORT

Lab Number:	L1826255
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	170500202
Project Number:	170500202
Report Date:	07/18/18

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1826255-01	UST04_B1_11-12	SOIL	300 W. 122ND ST.	07/11/18 12:30	07/11/18
L1826255-02	UST04_B2_11-12	SOIL	300 W. 122ND ST.	07/11/18 12:40	07/11/18
L1826255-03	UST05_B1_9-10	SOIL	300 W. 122ND ST.	07/11/18 12:50	07/11/18
L1826255-04	UST05_B2_9-10	SOIL	300 W. 122ND ST.	07/11/18 13:00	07/11/18

Project Name: 170500202**Lab Number:** L1826255**Project Number:** 170500202**Report Date:** 07/18/18

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: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

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.

Volatile Organics

L1826255-01: Differences were noted between the results of the original analysis and the re-analysis on dilution which have been attributed to vial discrepancies. Further re-analysis could not be performed due to the existing vials being compromised.

L1826255-01 was analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 07/18/18

ORGANICS

VOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-01
 Client ID: UST04_B1_11-12
 Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:30
 Date Received: 07/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/15/18 18:37
 Analyst: MV
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	43		ug/kg	0.49	0.16	1
Toluene	360	E	ug/kg	0.99	0.54	1
Ethylbenzene	160		ug/kg	0.99	0.14	1
Methyl tert butyl ether	2.0		ug/kg	2.0	0.20	1
p/m-Xylene	590		ug/kg	2.0	0.55	1
o-Xylene	260		ug/kg	0.99	0.29	1
Xylenes, Total	850		ug/kg	0.99	0.29	1
n-Butylbenzene	8.5		ug/kg	0.99	0.16	1
sec-Butylbenzene	4.9		ug/kg	0.99	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
Isopropylbenzene	14		ug/kg	0.99	0.11	1
p-Isopropyltoluene	2.2		ug/kg	0.99	0.11	1
Naphthalene	65		ug/kg	4.0	0.64	1
n-Propylbenzene	53		ug/kg	0.99	0.17	1
1,3,5-Trimethylbenzene	90		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	340	E	ug/kg	2.0	0.33	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	96		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-01
 Client ID: UST04_B1_11-12
 Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:30
 Date Received: 07/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/16/18 11:02
 Analyst: JC
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Benzene	26		ug/kg	26	8.8	1
Toluene	190		ug/kg	53	29.	1
Ethylbenzene	77		ug/kg	53	7.5	1
Methyl tert butyl ether	ND		ug/kg	100	11.	1
p/m-Xylene	250		ug/kg	100	30.	1
o-Xylene	120		ug/kg	53	15.	1
Xylenes, Total	370		ug/kg	0.99	0.29	1
n-Butylbenzene	ND		ug/kg	53	8.8	1
sec-Butylbenzene	ND		ug/kg	53	7.7	1
tert-Butylbenzene	ND		ug/kg	100	6.2	1
Isopropylbenzene	ND		ug/kg	53	5.8	1
p-Isopropyltoluene	ND		ug/kg	53	5.8	1
Naphthalene	49	J	ug/kg	210	34.	1
n-Propylbenzene	32	J	ug/kg	53	9.0	1
1,3,5-Trimethylbenzene	60	J	ug/kg	100	10.	1
1,2,4-Trimethylbenzene	160		ug/kg	100	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-02
Client ID: UST04_B2_11-12
Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:40
Date Received: 07/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/15/18 19:03
Analyst: MV
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	9.6		ug/kg	0.47	0.16	1
Toluene	70		ug/kg	0.95	0.52	1
Ethylbenzene	24		ug/kg	0.95	0.13	1
Methyl tert butyl ether	0.38	J	ug/kg	1.9	0.19	1
p/m-Xylene	88		ug/kg	1.9	0.53	1
o-Xylene	41		ug/kg	0.95	0.28	1
Xylenes, Total	130		ug/kg	0.95	0.28	1
n-Butylbenzene	1.3		ug/kg	0.95	0.16	1
sec-Butylbenzene	0.80	J	ug/kg	0.95	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
Isopropylbenzene	2.0		ug/kg	0.95	0.10	1
p-Isopropyltoluene	0.40	J	ug/kg	0.95	0.10	1
Naphthalene	7.7		ug/kg	3.8	0.62	1
n-Propylbenzene	7.0		ug/kg	0.95	0.16	1
1,3,5-Trimethylbenzene	14		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	45		ug/kg	1.9	0.32	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	98		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-03
Client ID: UST05_B1_9-10
Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:50
Date Received: 07/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/15/18 19:29
Analyst: MV
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	0.26	J	ug/kg	0.50	0.17	1
Toluene	2.9		ug/kg	1.0	0.54	1
Ethylbenzene	1.8		ug/kg	1.0	0.14	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	100		ug/kg	2.0	0.56	1
o-Xylene	54		ug/kg	1.0	0.29	1
Xylenes, Total	150		ug/kg	1.0	0.29	1
n-Butylbenzene	3.3		ug/kg	1.0	0.17	1
sec-Butylbenzene	1.9		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
Isopropylbenzene	1.6		ug/kg	1.0	0.11	1
p-Isopropyltoluene	1.2		ug/kg	1.0	0.11	1
Naphthalene	33		ug/kg	4.0	0.65	1
n-Propylbenzene	4.1		ug/kg	1.0	0.17	1
1,3,5-Trimethylbenzene	35		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	130		ug/kg	2.0	0.34	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-04 D
 Client ID: UST05_B2_9-10
 Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 13:00
 Date Received: 07/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/16/18 09:41
 Analyst: MV
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	1600	550	50
Toluene	2600	J	ug/kg	3300	1800	50
Ethylbenzene	ND		ug/kg	3300	470	50
Methyl tert butyl ether	ND		ug/kg	6600	660	50
p/m-Xylene	360000		ug/kg	6600	1800	50
o-Xylene	150000		ug/kg	3300	960	50
Xylenes, Total	510000		ug/kg	3300	960	50
n-Butylbenzene	13000		ug/kg	3300	550	50
sec-Butylbenzene	6200		ug/kg	3300	480	50
tert-Butylbenzene	ND		ug/kg	6600	390	50
Isopropylbenzene	4800		ug/kg	3300	360	50
p-Isopropyltoluene	2600	J	ug/kg	3300	360	50
Naphthalene	49000		ug/kg	13000	2200	50
n-Propylbenzene	12000		ug/kg	3300	570	50
1,3,5-Trimethylbenzene	92000		ug/kg	6600	640	50
1,2,4-Trimethylbenzene	320000		ug/kg	6600	1100	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 07/15/18 15:07
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG1136066-5					
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Methyl tert butyl ether	0.27	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 07/16/18 09:15
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,04 Batch: WG1136422-5					
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
n-Propylbenzene	ND		ug/kg	50	8.6
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1136066-3 WG1136066-4								
Benzene	111		109		70-130	2		30
Toluene	96		94		70-130	2		30
Ethylbenzene	96		96		70-130	0		30
Methyl tert butyl ether	107		108		66-130	1		30
p/m-Xylene	96		94		70-130	2		30
o-Xylene	95		93		70-130	2		30
n-Butylbenzene	99		96		70-130	3		30
sec-Butylbenzene	92		89		70-130	3		30
tert-Butylbenzene	88		85		70-130	3		30
Isopropylbenzene	90		90		70-130	0		30
p-Isopropyltoluene	87		85		70-130	2		30
Naphthalene	79		79		70-130	0		30
n-Propylbenzene	95		93		70-130	2		30
1,3,5-Trimethylbenzene	91		92		70-130	1		30
1,2,4-Trimethylbenzene	93		94		70-130	1		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	103		103		70-130
Toluene-d8	95		94		70-130
4-Bromofluorobenzene	105		107		70-130
Dibromofluoromethane	98		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04 Batch: WG1136422-3 WG1136422-4									
Benzene	100		100		70-130	0		30	
Toluene	88		90		70-130	2		30	
Ethylbenzene	90		92		70-130	2		30	
Methyl tert butyl ether	106		103		66-130	3		30	
p/m-Xylene	90		92		70-130	2		30	
o-Xylene	89		92		70-130	3		30	
n-Butylbenzene	88		89		70-130	1		30	
sec-Butylbenzene	86		88		70-130	2		30	
tert-Butylbenzene	85		87		70-130	2		30	
Isopropylbenzene	86		87		70-130	1		30	
p-Isopropyltoluene	86		88		70-130	2		30	
Naphthalene	84		82		70-130	2		30	
n-Propylbenzene	86		87		70-130	1		30	
1,3,5-Trimethylbenzene	86		87		70-130	1		30	
1,2,4-Trimethylbenzene	85		87		70-130	2		30	

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	100		99		70-130
Toluene-d8	92		94		70-130
4-Bromofluorobenzene	102		99		70-130
Dibromofluoromethane	101		102		70-130

SEMIVOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-01
 Client ID: UST04_B1_11-12
 Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:30
 Date Received: 07/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/15/18 21:39
 Analyst: SZ
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 07/14/18 16:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
Fluoranthene	780		ug/kg	110	21.	1
Naphthalene	47	J	ug/kg	180	22.	1
Benzo(a)anthracene	420		ug/kg	110	20.	1
Benzo(a)pyrene	360		ug/kg	140	44.	1
Benzo(b)fluoranthene	510		ug/kg	110	30.	1
Benzo(k)fluoranthene	110		ug/kg	110	29.	1
Chrysene	370		ug/kg	110	19.	1
Acenaphthylene	87	J	ug/kg	140	28.	1
Anthracene	110		ug/kg	110	35.	1
Benzo(ghi)perylene	250		ug/kg	140	21.	1
Fluorene	48	J	ug/kg	180	17.	1
Phenanthrene	440		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	46	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	250		ug/kg	140	25.	1
Pyrene	710		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	82		30-120
4-Terphenyl-d14	69		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-02
 Client ID: UST04_B2_11-12
 Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:40
 Date Received: 07/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/15/18 22:05
 Analyst: SZ
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 07/14/18 16:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	55	J	ug/kg	140	19.	1
Fluoranthene	1900		ug/kg	110	21.	1
Naphthalene	82	J	ug/kg	180	22.	1
Benzo(a)anthracene	1000		ug/kg	110	20.	1
Benzo(a)pyrene	910		ug/kg	140	44.	1
Benzo(b)fluoranthene	1200		ug/kg	110	30.	1
Benzo(k)fluoranthene	280		ug/kg	110	29.	1
Chrysene	880		ug/kg	110	19.	1
Acenaphthylene	230		ug/kg	140	28.	1
Anthracene	360		ug/kg	110	35.	1
Benzo(ghi)perylene	590		ug/kg	140	21.	1
Fluorene	110	J	ug/kg	180	18.	1
Phenanthrene	1100		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	120		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	620		ug/kg	140	25.	1
Pyrene	1800		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	76		30-120
4-Terphenyl-d14	61		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-03
 Client ID: UST05_B1_9-10
 Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:50
 Date Received: 07/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/15/18 22:30
 Analyst: SZ
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 07/14/18 16:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	55	J	ug/kg	140	19.	1
Fluoranthene	2000		ug/kg	110	21.	1
Naphthalene	270		ug/kg	180	22.	1
Benzo(a)anthracene	1100		ug/kg	110	20.	1
Benzo(a)pyrene	1100		ug/kg	140	44.	1
Benzo(b)fluoranthene	1400		ug/kg	110	31.	1
Benzo(k)fluoranthene	410		ug/kg	110	29.	1
Chrysene	1000		ug/kg	110	19.	1
Acenaphthylene	290		ug/kg	140	28.	1
Anthracene	300		ug/kg	110	35.	1
Benzo(ghi)perylene	720		ug/kg	140	21.	1
Fluorene	78	J	ug/kg	180	18.	1
Phenanthrene	880		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	130		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	740		ug/kg	140	25.	1
Pyrene	1900		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	57		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-04
 Client ID: UST05_B2_9-10
 Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 13:00
 Date Received: 07/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/15/18 22:56
 Analyst: SZ
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 07/14/18 16:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	160		ug/kg	150	20.	1
Fluoranthene	2700		ug/kg	110	22.	1
Naphthalene	20000	E	ug/kg	190	23.	1
Benzo(a)anthracene	1400		ug/kg	110	21.	1
Benzo(a)pyrene	1200		ug/kg	150	46.	1
Benzo(b)fluoranthene	1900		ug/kg	110	32.	1
Benzo(k)fluoranthene	380		ug/kg	110	30.	1
Chrysene	1400		ug/kg	110	20.	1
Acenaphthylene	450		ug/kg	150	29.	1
Anthracene	440		ug/kg	110	37.	1
Benzo(ghi)perylene	850		ug/kg	150	22.	1
Fluorene	290		ug/kg	190	18.	1
Phenanthrene	1700		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	160		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	890		ug/kg	150	26.	1
Pyrene	2400		ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	77		30-120
4-Terphenyl-d14	79		18-120

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-04 D

Date Collected: 07/11/18 13:00

Client ID: UST05_B2_9-10

Date Received: 07/11/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 07/14/18 16:16

Analytical Date: 07/18/18 12:48

Analyst: ALS

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	27000		ug/kg	950	120	5

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 07/16/18 09:30
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 07/14/18 16:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1135794-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 07/16/18 09:30
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 07/14/18 16:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1135794-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	109		10-136
4-Terphenyl-d14	117		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1826255

Report Date: 07/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1135794-2 WG1135794-3								
Acenaphthene	90		90		31-137	0		50
Fluoranthene	103		99		40-140	4		50
Naphthalene	87		87		40-140	0		50
Benzo(a)anthracene	96		96		40-140	0		50
Benzo(a)pyrene	106		103		40-140	3		50
Benzo(b)fluoranthene	102		102		40-140	0		50
Benzo(k)fluoranthene	98		97		40-140	1		50
Chrysene	94		89		40-140	5		50
Acenaphthylene	99		98		40-140	1		50
Anthracene	96		94		40-140	2		50
Benzo(ghi)perylene	102		98		40-140	4		50
Fluorene	94		92		40-140	2		50
Phenanthrene	93		92		40-140	1		50
Dibenzo(a,h)anthracene	102		100		40-140	2		50
Indeno(1,2,3-cd)pyrene	103		102		40-140	1		50
Pyrene	98		95		35-142	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1826255

Report Date: 07/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1135794-2 WG1135794-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	97		86		25-120
Phenol-d6	99		89		10-120
Nitrobenzene-d5	102		92		23-120
2-Fluorobiphenyl	96		94		30-120
2,4,6-Tribromophenol	107		108		10-136
4-Terphenyl-d14	121	Q	112		18-120

INORGANICS & MISCELLANEOUS

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-01
Client ID: UST04_B1_11-12
Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:30
Date Received: 07/11/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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	-	07/13/18 10:19	121,2540G	RI



Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-02

Date Collected: 07/11/18 12:40

Client ID: UST04_B2_11-12

Date Received: 07/11/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	07/13/18 10:19	121,2540G	RI



Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-03
Client ID: UST05_B1_9-10
Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:50
Date Received: 07/11/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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	-	07/13/18 10:19	121,2540G	RI



Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-04

Date Collected: 07/11/18 13:00

Client ID: UST05_B2_9-10

Date Received: 07/11/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	07/13/18 10:19	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1826255

Report Date: 07/18/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1135382-1 QC Sample: L1826236-02 Client ID: DUP Sample						
Solids, Total	87.7	88.0	%	0		20

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1826255-01A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L1826255-01A1	Vial MeOH preserved split	A	NA		2.2	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L1826255-01B	Vial water preserved	A	NA		2.2	Y	Absent	12-JUL-18 23:43	NYTCL-8260H(14),NYTCL-8260HLW(14)
L1826255-01C	Vial water preserved	A	NA		2.2	Y	Absent	12-JUL-18 23:43	NYTCL-8260H(14),NYTCL-8260HLW(14)
L1826255-01D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1826255-01E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14)
L1826255-02A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1826255-02B	Vial water preserved	A	NA		2.2	Y	Absent	12-JUL-18 23:43	NYTCL-8260HLW(14)
L1826255-02C	Vial water preserved	A	NA		2.2	Y	Absent	12-JUL-18 23:43	NYTCL-8260HLW(14)
L1826255-02D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1826255-02E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14)
L1826255-03A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1826255-03B	Vial water preserved	A	NA		2.2	Y	Absent	12-JUL-18 23:43	NYTCL-8260HLW(14)
L1826255-03C	Vial water preserved	A	NA		2.2	Y	Absent	12-JUL-18 23:43	NYTCL-8260HLW(14)
L1826255-03D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1826255-03E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14)
L1826255-04A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1826255-04B	Vial water preserved	A	NA		2.2	Y	Absent	12-JUL-18 23:43	NYTCL-8260HLW(14)
L1826255-04C	Vial water preserved	A	NA		2.2	Y	Absent	12-JUL-18 23:43	NYTCL-8260HLW(14)
L1826255-04D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1826255-04E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14)

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

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

Report Format: DU Report with 'J' Qualifiers



Project Name: 170500202
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Data Qualifiers

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 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: 170500202
Project Number: 170500202

Lab Number: L1826255
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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.



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: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, 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, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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 YORK 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 of	Date Rec'd In Lab <u>07/12/18</u>	ALPHA Job # <u>L182625</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>170500202</u> Project Location: <u>300 W. 122nd ST</u> Project # <u>170500202</u> (Use Project name as Project #) <input checked="" type="checkbox"/>	Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> Other	<input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (4 File) <input checked="" type="checkbox"/> EMAIL	Billing Information <input type="checkbox"/> Same as Client Info PO #																																																																							
Client Information Client: <u>LANKAN</u> Address: <u>360 WEST 31st ST</u> <u>8th FLOOR</u> Phone: <u>212-459-5400</u> Fax: Email: <u>G.WYKA@LANKAN.COM</u>		Project Manager: <u>GREC WYKA</u> ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:	Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<input type="checkbox"/> NY Part 375 <input checked="" type="checkbox"/> NY CP-51 <input type="checkbox"/> Other																																																																								
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments:		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)																																																																									
Please specify Metals or TAL.		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">CP51 Vials / SVCS</th> <th colspan="4">ANALYSIS</th> <th rowspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td><u>26255-01</u></td> <td><u>UST04-B1-11-12</u></td> <td><u>07/11/18</u></td> <td><u>12:30</u></td> <td><u>SOIL</u></td> <td><u>DE</u></td> <td><u>8</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>02</u></td> <td><u>UST04-B2-11-12</u></td> <td></td> <td><u>12:40</u></td> <td></td> <td><u>DE</u></td> <td><u>8</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>03</u></td> <td><u>UST05-B1-9-10</u></td> <td></td> <td><u>12:50</u></td> <td></td> <td><u>DE</u></td> <td><u>8</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>04</u></td> <td><u>UST05-B2-9-10</u></td> <td></td> <td><u>13:00</u></td> <td></td> <td><u>DE</u></td> <td><u>8</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	CP51 Vials / SVCS	ANALYSIS				Sample Specific Comments	Date	Time							<u>26255-01</u>	<u>UST04-B1-11-12</u>	<u>07/11/18</u>	<u>12:30</u>	<u>SOIL</u>	<u>DE</u>	<u>8</u>							<u>02</u>	<u>UST04-B2-11-12</u>		<u>12:40</u>		<u>DE</u>	<u>8</u>							<u>03</u>	<u>UST05-B1-9-10</u>		<u>12:50</u>		<u>DE</u>	<u>8</u>							<u>04</u>	<u>UST05-B2-9-10</u>		<u>13:00</u>		<u>DE</u>	<u>8</u>							Sample Specific Comments	
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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>DANIELEIDA</u> <u>D. Santos AAC</u>	Date/Time: <u>07/11/18 1410</u> <u>7/11/18 2250</u>	Received By: <u>[Signature]</u> <u>D. Santos AAC</u> <u>[Signature]</u>	Date/Time: <u>7/11/18 1410</u> <u>7/11/18 1815</u> <u>7/11/18 2250</u>																																																																								



ANALYTICAL REPORT

Lab Number:	L1826255
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	170500202
Project Number:	170500202
Report Date:	07/18/18

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1826255-01	UST04_B1_11-12	SOIL	300 W. 122ND ST.	07/11/18 12:30	07/11/18
L1826255-02	UST04_B2_11-12	SOIL	300 W. 122ND ST.	07/11/18 12:40	07/11/18
L1826255-03	UST05_B1_9-10	SOIL	300 W. 122ND ST.	07/11/18 12:50	07/11/18
L1826255-04	UST05_B2_9-10	SOIL	300 W. 122ND ST.	07/11/18 13:00	07/11/18

Project Name: 170500202**Lab Number:** L1826255**Project Number:** 170500202**Report Date:** 07/18/18

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: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

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.

Volatile Organics

L1826255-01: Differences were noted between the results of the original analysis and the re-analysis on dilution which have been attributed to vial discrepancies. Further re-analysis could not be performed due to the existing vials being compromised.

L1826255-01 was analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 07/18/18

ORGANICS

VOLATILES

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-01
 Client ID: UST04_B1_11-12
 Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:30
 Date Received: 07/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/15/18 18:37
 Analyst: MV
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	43		ug/kg	0.49	0.16	1
Toluene	360	E	ug/kg	0.99	0.54	1
Ethylbenzene	160		ug/kg	0.99	0.14	1
Methyl tert butyl ether	2.0		ug/kg	2.0	0.20	1
p/m-Xylene	590		ug/kg	2.0	0.55	1
o-Xylene	260		ug/kg	0.99	0.29	1
Xylenes, Total	850		ug/kg	0.99	0.29	1
n-Butylbenzene	8.5		ug/kg	0.99	0.16	1
sec-Butylbenzene	4.9		ug/kg	0.99	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
Isopropylbenzene	14		ug/kg	0.99	0.11	1
p-Isopropyltoluene	2.2		ug/kg	0.99	0.11	1
Naphthalene	65		ug/kg	4.0	0.64	1
n-Propylbenzene	53		ug/kg	0.99	0.17	1
1,3,5-Trimethylbenzene	90		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	340	E	ug/kg	2.0	0.33	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	96		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-01
 Client ID: UST04_B1_11-12
 Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:30
 Date Received: 07/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/16/18 11:02
 Analyst: JC
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Benzene	26		ug/kg	26	8.8	1
Toluene	190		ug/kg	53	29.	1
Ethylbenzene	77		ug/kg	53	7.5	1
Methyl tert butyl ether	ND		ug/kg	100	11.	1
p/m-Xylene	250		ug/kg	100	30.	1
o-Xylene	120		ug/kg	53	15.	1
Xylenes, Total	370		ug/kg	0.99	0.29	1
n-Butylbenzene	ND		ug/kg	53	8.8	1
sec-Butylbenzene	ND		ug/kg	53	7.7	1
tert-Butylbenzene	ND		ug/kg	100	6.2	1
Isopropylbenzene	ND		ug/kg	53	5.8	1
p-Isopropyltoluene	ND		ug/kg	53	5.8	1
Naphthalene	49	J	ug/kg	210	34.	1
n-Propylbenzene	32	J	ug/kg	53	9.0	1
1,3,5-Trimethylbenzene	60	J	ug/kg	100	10.	1
1,2,4-Trimethylbenzene	160		ug/kg	100	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-02
 Client ID: UST04_B2_11-12
 Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:40
 Date Received: 07/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/15/18 19:03
 Analyst: MV
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	9.6		ug/kg	0.47	0.16	1
Toluene	70		ug/kg	0.95	0.52	1
Ethylbenzene	24		ug/kg	0.95	0.13	1
Methyl tert butyl ether	0.38	J	ug/kg	1.9	0.19	1
p/m-Xylene	88		ug/kg	1.9	0.53	1
o-Xylene	41		ug/kg	0.95	0.28	1
Xylenes, Total	130		ug/kg	0.95	0.28	1
n-Butylbenzene	1.3		ug/kg	0.95	0.16	1
sec-Butylbenzene	0.80	J	ug/kg	0.95	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
Isopropylbenzene	2.0		ug/kg	0.95	0.10	1
p-Isopropyltoluene	0.40	J	ug/kg	0.95	0.10	1
Naphthalene	7.7		ug/kg	3.8	0.62	1
n-Propylbenzene	7.0		ug/kg	0.95	0.16	1
1,3,5-Trimethylbenzene	14		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	45		ug/kg	1.9	0.32	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	98		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-03
 Client ID: UST05_B1_9-10
 Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:50
 Date Received: 07/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/15/18 19:29
 Analyst: MV
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	0.26	J	ug/kg	0.50	0.17	1
Toluene	2.9		ug/kg	1.0	0.54	1
Ethylbenzene	1.8		ug/kg	1.0	0.14	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	100		ug/kg	2.0	0.56	1
o-Xylene	54		ug/kg	1.0	0.29	1
Xylenes, Total	150		ug/kg	1.0	0.29	1
n-Butylbenzene	3.3		ug/kg	1.0	0.17	1
sec-Butylbenzene	1.9		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
Isopropylbenzene	1.6		ug/kg	1.0	0.11	1
p-Isopropyltoluene	1.2		ug/kg	1.0	0.11	1
Naphthalene	33		ug/kg	4.0	0.65	1
n-Propylbenzene	4.1		ug/kg	1.0	0.17	1
1,3,5-Trimethylbenzene	35		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	130		ug/kg	2.0	0.34	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-04 D
 Client ID: UST05_B2_9-10
 Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 13:00
 Date Received: 07/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/16/18 09:41
 Analyst: MV
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	1600	550	50
Toluene	2600	J	ug/kg	3300	1800	50
Ethylbenzene	ND		ug/kg	3300	470	50
Methyl tert butyl ether	ND		ug/kg	6600	660	50
p/m-Xylene	360000		ug/kg	6600	1800	50
o-Xylene	150000		ug/kg	3300	960	50
Xylenes, Total	510000		ug/kg	3300	960	50
n-Butylbenzene	13000		ug/kg	3300	550	50
sec-Butylbenzene	6200		ug/kg	3300	480	50
tert-Butylbenzene	ND		ug/kg	6600	390	50
Isopropylbenzene	4800		ug/kg	3300	360	50
p-Isopropyltoluene	2600	J	ug/kg	3300	360	50
Naphthalene	49000		ug/kg	13000	2200	50
n-Propylbenzene	12000		ug/kg	3300	570	50
1,3,5-Trimethylbenzene	92000		ug/kg	6600	640	50
1,2,4-Trimethylbenzene	320000		ug/kg	6600	1100	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 07/15/18 15:07
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG1136066-5					
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Methyl tert butyl ether	0.27	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 07/16/18 09:15
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,04 Batch: WG1136422-5					
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
n-Propylbenzene	ND		ug/kg	50	8.6
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1136066-3 WG1136066-4								
Benzene	111		109		70-130	2		30
Toluene	96		94		70-130	2		30
Ethylbenzene	96		96		70-130	0		30
Methyl tert butyl ether	107		108		66-130	1		30
p/m-Xylene	96		94		70-130	2		30
o-Xylene	95		93		70-130	2		30
n-Butylbenzene	99		96		70-130	3		30
sec-Butylbenzene	92		89		70-130	3		30
tert-Butylbenzene	88		85		70-130	3		30
Isopropylbenzene	90		90		70-130	0		30
p-Isopropyltoluene	87		85		70-130	2		30
Naphthalene	79		79		70-130	0		30
n-Propylbenzene	95		93		70-130	2		30
1,3,5-Trimethylbenzene	91		92		70-130	1		30
1,2,4-Trimethylbenzene	93		94		70-130	1		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	103		103		70-130
Toluene-d8	95		94		70-130
4-Bromofluorobenzene	105		107		70-130
Dibromofluoromethane	98		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04 Batch: WG1136422-3 WG1136422-4									
Benzene	100		100		70-130		0		30
Toluene	88		90		70-130		2		30
Ethylbenzene	90		92		70-130		2		30
Methyl tert butyl ether	106		103		66-130		3		30
p/m-Xylene	90		92		70-130		2		30
o-Xylene	89		92		70-130		3		30
n-Butylbenzene	88		89		70-130		1		30
sec-Butylbenzene	86		88		70-130		2		30
tert-Butylbenzene	85		87		70-130		2		30
Isopropylbenzene	86		87		70-130		1		30
p-Isopropyltoluene	86		88		70-130		2		30
Naphthalene	84		82		70-130		2		30
n-Propylbenzene	86		87		70-130		1		30
1,3,5-Trimethylbenzene	86		87		70-130		1		30
1,2,4-Trimethylbenzene	85		87		70-130		2		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	100		99		70-130
Toluene-d8	92		94		70-130
4-Bromofluorobenzene	102		99		70-130
Dibromofluoromethane	101		102		70-130

SEMIVOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-01
 Client ID: UST04_B1_11-12
 Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:30
 Date Received: 07/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/15/18 21:39
 Analyst: SZ
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 07/14/18 16:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
Fluoranthene	780		ug/kg	110	21.	1
Naphthalene	47	J	ug/kg	180	22.	1
Benzo(a)anthracene	420		ug/kg	110	20.	1
Benzo(a)pyrene	360		ug/kg	140	44.	1
Benzo(b)fluoranthene	510		ug/kg	110	30.	1
Benzo(k)fluoranthene	110		ug/kg	110	29.	1
Chrysene	370		ug/kg	110	19.	1
Acenaphthylene	87	J	ug/kg	140	28.	1
Anthracene	110		ug/kg	110	35.	1
Benzo(ghi)perylene	250		ug/kg	140	21.	1
Fluorene	48	J	ug/kg	180	17.	1
Phenanthrene	440		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	46	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	250		ug/kg	140	25.	1
Pyrene	710		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	82		30-120
4-Terphenyl-d14	69		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-02
 Client ID: UST04_B2_11-12
 Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:40
 Date Received: 07/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/15/18 22:05
 Analyst: SZ
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 07/14/18 16:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	55	J	ug/kg	140	19.	1
Fluoranthene	1900		ug/kg	110	21.	1
Naphthalene	82	J	ug/kg	180	22.	1
Benzo(a)anthracene	1000		ug/kg	110	20.	1
Benzo(a)pyrene	910		ug/kg	140	44.	1
Benzo(b)fluoranthene	1200		ug/kg	110	30.	1
Benzo(k)fluoranthene	280		ug/kg	110	29.	1
Chrysene	880		ug/kg	110	19.	1
Acenaphthylene	230		ug/kg	140	28.	1
Anthracene	360		ug/kg	110	35.	1
Benzo(ghi)perylene	590		ug/kg	140	21.	1
Fluorene	110	J	ug/kg	180	18.	1
Phenanthrene	1100		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	120		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	620		ug/kg	140	25.	1
Pyrene	1800		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	76		30-120
4-Terphenyl-d14	61		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-03
 Client ID: UST05_B1_9-10
 Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:50
 Date Received: 07/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/15/18 22:30
 Analyst: SZ
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 07/14/18 16:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	55	J	ug/kg	140	19.	1
Fluoranthene	2000		ug/kg	110	21.	1
Naphthalene	270		ug/kg	180	22.	1
Benzo(a)anthracene	1100		ug/kg	110	20.	1
Benzo(a)pyrene	1100		ug/kg	140	44.	1
Benzo(b)fluoranthene	1400		ug/kg	110	31.	1
Benzo(k)fluoranthene	410		ug/kg	110	29.	1
Chrysene	1000		ug/kg	110	19.	1
Acenaphthylene	290		ug/kg	140	28.	1
Anthracene	300		ug/kg	110	35.	1
Benzo(ghi)perylene	720		ug/kg	140	21.	1
Fluorene	78	J	ug/kg	180	18.	1
Phenanthrene	880		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	130		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	740		ug/kg	140	25.	1
Pyrene	1900		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	57		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-04
 Client ID: UST05_B2_9-10
 Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 13:00
 Date Received: 07/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/15/18 22:56
 Analyst: SZ
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 07/14/18 16:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	160		ug/kg	150	20.	1
Fluoranthene	2700		ug/kg	110	22.	1
Naphthalene	20000	E	ug/kg	190	23.	1
Benzo(a)anthracene	1400		ug/kg	110	21.	1
Benzo(a)pyrene	1200		ug/kg	150	46.	1
Benzo(b)fluoranthene	1900		ug/kg	110	32.	1
Benzo(k)fluoranthene	380		ug/kg	110	30.	1
Chrysene	1400		ug/kg	110	20.	1
Acenaphthylene	450		ug/kg	150	29.	1
Anthracene	440		ug/kg	110	37.	1
Benzo(ghi)perylene	850		ug/kg	150	22.	1
Fluorene	290		ug/kg	190	18.	1
Phenanthrene	1700		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	160		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	890		ug/kg	150	26.	1
Pyrene	2400		ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	77		30-120
4-Terphenyl-d14	79		18-120

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-04 D

Date Collected: 07/11/18 13:00

Client ID: UST05_B2_9-10

Date Received: 07/11/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 07/14/18 16:16

Analytical Date: 07/18/18 12:48

Analyst: ALS

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	27000		ug/kg	950	120	5

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 07/16/18 09:30
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 07/14/18 16:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1135794-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 07/16/18 09:30
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 07/14/18 16:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1135794-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	109		10-136
4-Terphenyl-d14	117		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1135794-2 WG1135794-3								
Acenaphthene	90		90		31-137	0		50
Fluoranthene	103		99		40-140	4		50
Naphthalene	87		87		40-140	0		50
Benzo(a)anthracene	96		96		40-140	0		50
Benzo(a)pyrene	106		103		40-140	3		50
Benzo(b)fluoranthene	102		102		40-140	0		50
Benzo(k)fluoranthene	98		97		40-140	1		50
Chrysene	94		89		40-140	5		50
Acenaphthylene	99		98		40-140	1		50
Anthracene	96		94		40-140	2		50
Benzo(ghi)perylene	102		98		40-140	4		50
Fluorene	94		92		40-140	2		50
Phenanthrene	93		92		40-140	1		50
Dibenzo(a,h)anthracene	102		100		40-140	2		50
Indeno(1,2,3-cd)pyrene	103		102		40-140	1		50
Pyrene	98		95		35-142	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1826255

Report Date: 07/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1135794-2 WG1135794-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	97		86		25-120
Phenol-d6	99		89		10-120
Nitrobenzene-d5	102		92		23-120
2-Fluorobiphenyl	96		94		30-120
2,4,6-Tribromophenol	107		108		10-136
4-Terphenyl-d14	121	Q	112		18-120

INORGANICS & MISCELLANEOUS

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-01
Client ID: UST04_B1_11-12
Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:30
Date Received: 07/11/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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	-	07/13/18 10:19	121,2540G	RI



Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-02

Date Collected: 07/11/18 12:40

Client ID: UST04_B2_11-12

Date Received: 07/11/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	07/13/18 10:19	121,2540G	RI



Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-03
Client ID: UST05_B1_9-10
Sample Location: 300 W. 122ND ST.

Date Collected: 07/11/18 12:50
Date Received: 07/11/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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	-	07/13/18 10:19	121,2540G	RI



Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

SAMPLE RESULTS

Lab ID: L1826255-04

Date Collected: 07/11/18 13:00

Client ID: UST05_B2_9-10

Date Received: 07/11/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	07/13/18 10:19	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1826255

Report Date: 07/18/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1135382-1 QC Sample: L1826236-02 Client ID: DUP Sample						
Solids, Total	87.7	88.0	%	0		20

Project Name: 170500202

Lab Number: L1826255

Project Number: 170500202

Report Date: 07/18/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1826255-01A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L1826255-01A1	Vial MeOH preserved split	A	NA		2.2	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L1826255-01B	Vial water preserved	A	NA		2.2	Y	Absent	12-JUL-18 23:43	NYTCL-8260H(14),NYTCL-8260HLW(14)
L1826255-01C	Vial water preserved	A	NA		2.2	Y	Absent	12-JUL-18 23:43	NYTCL-8260H(14),NYTCL-8260HLW(14)
L1826255-01D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1826255-01E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14)
L1826255-02A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1826255-02B	Vial water preserved	A	NA		2.2	Y	Absent	12-JUL-18 23:43	NYTCL-8260HLW(14)
L1826255-02C	Vial water preserved	A	NA		2.2	Y	Absent	12-JUL-18 23:43	NYTCL-8260HLW(14)
L1826255-02D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1826255-02E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14)
L1826255-03A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1826255-03B	Vial water preserved	A	NA		2.2	Y	Absent	12-JUL-18 23:43	NYTCL-8260HLW(14)
L1826255-03C	Vial water preserved	A	NA		2.2	Y	Absent	12-JUL-18 23:43	NYTCL-8260HLW(14)
L1826255-03D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1826255-03E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14)
L1826255-04A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1826255-04B	Vial water preserved	A	NA		2.2	Y	Absent	12-JUL-18 23:43	NYTCL-8260HLW(14)
L1826255-04C	Vial water preserved	A	NA		2.2	Y	Absent	12-JUL-18 23:43	NYTCL-8260HLW(14)
L1826255-04D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1826255-04E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14)

Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

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

Report Format: DU Report with 'J' Qualifiers



Project Name: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

Data Qualifiers

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 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: 170500202
Project Number: 170500202

Lab Number: L1826255
Report Date: 07/18/18

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.



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: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, 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, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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.



ANALYTICAL REPORT

Lab Number:	L1830851
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	170500202
Project Number:	170500202
Report Date:	08/15/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 170500202
Project Number: 170500202

Lab Number: L1830851
Report Date: 08/15/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1830851-01	UST06_B1_9-10	SOIL	300 W 122ND ST.	08/08/18 14:40	08/08/18
L1830851-02	UST06_B2_9-10	SOIL	300 W 122ND ST.	08/08/18 14:40	08/08/18

Project Name: 170500202**Lab Number:** L1830851**Project Number:** 170500202**Report Date:** 08/15/18

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: 170500202
Project Number: 170500202

Lab Number: L1830851
Report Date: 08/15/18

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.

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: 08/15/18

ORGANICS

VOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1830851
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830851-01
 Client ID: UST06_B1_9-10
 Sample Location: 300 W 122ND ST.

Date Collected: 08/08/18 14:40
 Date Received: 08/08/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/14/18 17:37
 Analyst: JC
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.72	0.24	1
Toluene	ND		ug/kg	1.4	0.78	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.9	0.29	1
p/m-Xylene	ND		ug/kg	2.9	0.80	1
o-Xylene	0.88	J	ug/kg	1.4	0.42	1
Xylenes, Total	0.88	J	ug/kg	1.4	0.42	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.21	1
tert-Butylbenzene	ND		ug/kg	2.9	0.17	1
Isopropylbenzene	ND		ug/kg	1.4	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.16	1
Naphthalene	ND		ug/kg	5.7	0.93	1
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,3,5-Trimethylbenzene	0.70	J	ug/kg	2.9	0.28	1
1,2,4-Trimethylbenzene	0.88	J	ug/kg	2.9	0.48	1

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

Project Name: 170500202
Project Number: 170500202

Lab Number: L1830851
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830851-02
 Client ID: UST06_B2_9-10
 Sample Location: 300 W 122ND ST.

Date Collected: 08/08/18 14:40
 Date Received: 08/08/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/14/18 18:03
 Analyst: JC
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.96	0.52	1
Ethylbenzene	ND		ug/kg	0.96	0.13	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.96	0.28	1
Xylenes, Total	ND		ug/kg	0.96	0.28	1
n-Butylbenzene	ND		ug/kg	0.96	0.16	1
sec-Butylbenzene	ND		ug/kg	0.96	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
n-Propylbenzene	ND		ug/kg	0.96	0.16	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: 170500202

Lab Number: L1830851

Project Number: 170500202

Report Date: 08/15/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 08/14/18 09:40
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1146719-5					
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1830851

Project Number: 170500202

Report Date: 08/15/18

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1146719-3 WG1146719-4									
Benzene	93		93		70-130	0		30	
Toluene	90		89		70-130	1		30	
Ethylbenzene	90		90		70-130	0		30	
Methyl tert butyl ether	98		95		66-130	3		30	
p/m-Xylene	90		90		70-130	0		30	
o-Xylene	91		91		70-130	0		30	
n-Butylbenzene	94		93		70-130	1		30	
sec-Butylbenzene	94		93		70-130	1		30	
tert-Butylbenzene	92		91		70-130	1		30	
Isopropylbenzene	94		93		70-130	1		30	
p-Isopropyltoluene	92		92		70-130	0		30	
Naphthalene	92		91		70-130	1		30	
n-Propylbenzene	95		94		70-130	1		30	
1,3,5-Trimethylbenzene	93		92		70-130	1		30	
1,2,4-Trimethylbenzene	92		92		70-130	0		30	

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	104		101		70-130
Dibromofluoromethane	101		101		70-130

SEMIVOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1830851
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830851-01
 Client ID: UST06_B1_9-10
 Sample Location: 300 W 122ND ST.

Date Collected: 08/08/18 14:40
 Date Received: 08/08/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/14/18 06:51
 Analyst: RC
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 08/13/18 04:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Fluoranthene	760		ug/kg	110	21.	1
Naphthalene	26	J	ug/kg	180	22.	1
Benzo(a)anthracene	400		ug/kg	110	21.	1
Benzo(a)pyrene	390		ug/kg	150	45.	1
Benzo(b)fluoranthene	560		ug/kg	110	31.	1
Benzo(k)fluoranthene	170		ug/kg	110	30.	1
Chrysene	400		ug/kg	110	19.	1
Acenaphthylene	140	J	ug/kg	150	28.	1
Anthracene	110		ug/kg	110	36.	1
Benzo(ghi)perylene	280		ug/kg	150	22.	1
Fluorene	31	J	ug/kg	180	18.	1
Phenanthrene	320		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	68	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	290		ug/kg	150	26.	1
Pyrene	660		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	68		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1830851
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830851-02
 Client ID: UST06_B2_9-10
 Sample Location: 300 W 122ND ST.

Date Collected: 08/08/18 14:40
 Date Received: 08/08/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/14/18 07:15
 Analyst: RC
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 08/13/18 04:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Fluoranthene	840		ug/kg	110	20.	1
Naphthalene	23	J	ug/kg	180	22.	1
Benzo(a)anthracene	440		ug/kg	110	20.	1
Benzo(a)pyrene	410		ug/kg	140	44.	1
Benzo(b)fluoranthene	570		ug/kg	110	30.	1
Benzo(k)fluoranthene	200		ug/kg	110	28.	1
Chrysene	450		ug/kg	110	18.	1
Acenaphthylene	110	J	ug/kg	140	28.	1
Anthracene	120		ug/kg	110	35.	1
Benzo(ghi)perylene	280		ug/kg	140	21.	1
Fluorene	26	J	ug/kg	180	17.	1
Phenanthrene	330		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	75	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	290		ug/kg	140	25.	1
Pyrene	730		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	74		18-120

Project Name: 170500202

Lab Number: L1830851

Project Number: 170500202

Report Date: 08/15/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 08/14/18 01:39
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 08/13/18 04:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1145713-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	100	19.
Naphthalene	ND		ug/kg	170	20.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 170500202

Lab Number: L1830851

Project Number: 170500202

Report Date: 08/15/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 08/14/18 01:39
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 08/13/18 04:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1145713-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	92		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1830851

Project Number: 170500202

Report Date: 08/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1145713-2 WG1145713-3								
Acenaphthene	78		86		31-137	10		50
Fluoranthene	80		93		40-140	15		50
Naphthalene	76		80		40-140	5		50
Benzo(a)anthracene	74		84		40-140	13		50
Benzo(a)pyrene	75		90		40-140	18		50
Benzo(b)fluoranthene	79		92		40-140	15		50
Benzo(k)fluoranthene	74		88		40-140	17		50
Chrysene	78		88		40-140	12		50
Acenaphthylene	78		84		40-140	7		50
Anthracene	79		89		40-140	12		50
Benzo(ghi)perylene	80		92		40-140	14		50
Fluorene	79		89		40-140	12		50
Phenanthrene	78		87		40-140	11		50
Dibenzo(a,h)anthracene	79		92		40-140	15		50
Indeno(1,2,3-cd)pyrene	79		91		40-140	14		50
Pyrene	80		92		35-142	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1830851

Report Date: 08/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1145713-2 WG1145713-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	84		87		25-120
Phenol-d6	82		89		10-120
Nitrobenzene-d5	77		82		23-120
2-Fluorobiphenyl	79		86		30-120
2,4,6-Tribromophenol	85		93		10-136
4-Terphenyl-d14	81		93		18-120

INORGANICS & MISCELLANEOUS

Project Name: 170500202

Lab Number: L1830851

Project Number: 170500202

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830851-01

Date Collected: 08/08/18 14:40

Client ID: UST06_B1_9-10

Date Received: 08/08/18

Sample Location: 300 W 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

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	-	08/10/18 13:02	121,2540G	RI



Project Name: 170500202

Lab Number: L1830851

Project Number: 170500202

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830851-02

Date Collected: 08/08/18 14:40

Client ID: UST06_B2_9-10

Date Received: 08/08/18

Sample Location: 300 W 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	08/10/18 13:02	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1830851

Report Date: 08/15/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1145157-1 QC Sample: L1830842-15 Client ID: DUP Sample						
Solids, Total	82.2	83.1	%	1		20

Project Name: 170500202**Lab Number:** L1830851**Project Number:** 170500202**Report Date:** 08/15/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1830851-01A	Vial MeOH preserved	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L1830851-01B	Vial water preserved	A	NA		2.8	Y	Absent	10-AUG-18 01:22	NYTCL-8260HLW(14)
L1830851-01C	Vial water preserved	A	NA		2.8	Y	Absent	10-AUG-18 01:22	NYTCL-8260HLW(14)
L1830851-01D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1830851-01E	Glass 500ml/16oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14)
L1830851-02A	Vial MeOH preserved	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L1830851-02B	Vial water preserved	A	NA		2.8	Y	Absent	10-AUG-18 01:22	NYTCL-8260HLW(14)
L1830851-02C	Vial water preserved	A	NA		2.8	Y	Absent	10-AUG-18 01:22	NYTCL-8260HLW(14)
L1830851-02D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1830851-02E	Glass 500ml/16oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14)

Project Name: 170500202
Project Number: 170500202

Lab Number: L1830851
Report Date: 08/15/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 170500202
Project Number: 170500202

Lab Number: L1830851
Report Date: 08/15/18

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 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 exceedances 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: 170500202
Project Number: 170500202

Lab Number: L1830851
Report Date: 08/15/18

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.



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: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, 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, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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 YORK 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 _____ of _____	Date Rec'd in Lab 8-8-18	ALPHA Job # L1830851			
	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: 170500202 Project Location: 300 W 122nd ST Project # 170500202 (Use Project name as Project #) <input type="checkbox"/>				
Client Information Client: LANKAN Address: 360 W 31st ST 8th FLOOR Phone: 212-479-5400 Fax: _____ Email: GWYKA@LANKAN.COM		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other <input checked="" type="checkbox"/> EMAIL		Billing Information <input type="checkbox"/> Same as Client Info PO # _____			
Project Manager: GREG WYKA ALPHAQuote #: _____ Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: _____ Rush (only if pre approved) <input type="checkbox"/> # of Days: _____		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input checked="" type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other: _____			
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: _____ Please specify Metals or TAL. _____		ANALYSIS CP-51 VOC's, SVOC's		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	Total Bottle	
	30851 - G1	11ST06 - B1 - 9-10	08/08/18	1440	SOIL	DE	
	02	11ST06 - B2 - 9-10	08/08/18	1440	SOIL	DE	
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 _____	
Relinquished By: DANIEL E. AAL		Date/Time: 08/08/18		Received By: DON D. AAL		Date/Time: 8/8/18 1545	
Relinquished By: D. Santos		Date/Time: 8/8/18 1615		Received By: D. Santos		Date/Time: 8/8/18 1850	
Relinquished By: D. Santos		Date/Time: 8/8/18 2250		Received By: [Signature]		Date/Time: 8/8/18 2250	

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.)



ANALYTICAL REPORT

Lab Number:	L1831141
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	08/20/18

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1831141
Report Date: 08/20/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1831141-01	UST07_B1_13-14	SOIL	300 WEST 122ND ST.	08/09/18 14:50	08/09/18
L1831141-02	UST07_B2_13-14	SOIL	300 WEST 122ND ST.	08/09/18 14:50	08/09/18
L1831141-03	UST07_B2_13-14	SOIL	300 WEST 122ND ST.	08/10/18 12:50	08/10/18

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1831141
Report Date: 08/20/18

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: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1831141
Report Date: 08/20/18

Case Narrative (continued)

Report Submission

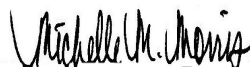
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L1831141-02: A sample container identified as "UST07_B2_13-14" was listed on the Chain of Custody, but was received empty for Semivolatile Organics analysis. This was verified by the client. Additional sample was collected on 08/10/18 12:50 for Semivolatile Organics and submitted to the laboratory on 8/10/18 in order to perform the Semivolatile Organics analysis reported as L1831141-03.

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 08/20/18

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1831141
Report Date: 08/20/18

SAMPLE RESULTS

Lab ID: L1831141-01
 Client ID: UST07_B1_13-14
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/09/18 14:50
 Date Received: 08/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/11/18 14:16
 Analyst: MKS
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	0.25	J	ug/kg	0.35	0.12	1
Toluene	5.6		ug/kg	0.71	0.38	1
Ethylbenzene	2.2		ug/kg	0.71	0.10	1
Methyl tert butyl ether	ND		ug/kg	1.4	0.14	1
p/m-Xylene	8.3		ug/kg	1.4	0.40	1
o-Xylene	4.5		ug/kg	0.71	0.20	1
Xylenes, Total	13		ug/kg	0.71	0.20	1
n-Butylbenzene	0.15	J	ug/kg	0.71	0.12	1
sec-Butylbenzene	ND		ug/kg	0.71	0.10	1
tert-Butylbenzene	ND		ug/kg	1.4	0.08	1
Isopropylbenzene	0.19	J	ug/kg	0.71	0.08	1
p-Isopropyltoluene	ND		ug/kg	0.71	0.08	1
Naphthalene	0.52	J	ug/kg	2.8	0.46	1
n-Propylbenzene	0.65	J	ug/kg	0.71	0.12	1
1,3,5-Trimethylbenzene	1.6		ug/kg	1.4	0.14	1
1,2,4-Trimethylbenzene	5.1		ug/kg	1.4	0.24	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	95		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1831141
Report Date: 08/20/18

SAMPLE RESULTS

Lab ID: L1831141-02
 Client ID: UST07_B2_13-14
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/09/18 14:50
 Date Received: 08/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/11/18 14:42
 Analyst: MKS
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.34	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	97		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1831141
Report Date: 08/20/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/11/18 11:40
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1145680-5					
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1831141
Report Date: 08/20/18

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1145680-3 WG1145680-4									
Benzene	120		122		70-130	2		30	
Toluene	108		106		70-130	2		30	
Ethylbenzene	109		108		70-130	1		30	
Methyl tert butyl ether	112		113		66-130	1		30	
p/m-Xylene	107		106		70-130	1		30	
o-Xylene	102		102		70-130	0		30	
n-Butylbenzene	114		113		70-130	1		30	
sec-Butylbenzene	107		107		70-130	0		30	
tert-Butylbenzene	97		98		70-130	1		30	
Isopropylbenzene	104		105		70-130	1		30	
p-Isopropyltoluene	98		99		70-130	1		30	
Naphthalene	84		84		70-130	0		30	
n-Propylbenzene	110		110		70-130	0		30	
1,3,5-Trimethylbenzene	104		107		70-130	3		30	
1,2,4-Trimethylbenzene	106		105		70-130	1		30	

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	109		108		70-130
Toluene-d8	95		94		70-130
4-Bromofluorobenzene	114		112		70-130
Dibromofluoromethane	93		96		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1831141
Report Date: 08/20/18

SAMPLE RESULTS

Lab ID: L1831141-01
 Client ID: UST07_B1_13-14
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/09/18 14:50
 Date Received: 08/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/15/18 19:25
 Analyst: RC
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 08/14/18 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	29	J	ug/kg	150	19.	1
Fluoranthene	1400		ug/kg	110	21.	1
Naphthalene	34	J	ug/kg	180	22.	1
Benzo(a)anthracene	760		ug/kg	110	21.	1
Benzo(a)pyrene	720		ug/kg	150	45.	1
Benzo(b)fluoranthene	1000		ug/kg	110	31.	1
Benzo(k)fluoranthene	340		ug/kg	110	30.	1
Chrysene	790		ug/kg	110	19.	1
Acenaphthylene	160		ug/kg	150	28.	1
Anthracene	180		ug/kg	110	36.	1
Benzo(ghi)perylene	470		ug/kg	150	22.	1
Fluorene	43	J	ug/kg	180	18.	1
Phenanthrene	510		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	130		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	520		ug/kg	150	26.	1
Pyrene	1200		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	84		30-120
4-Terphenyl-d14	62		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1831141
Report Date: 08/20/18

SAMPLE RESULTS

Lab ID: L1831141-03
 Client ID: UST07_B2_13-14
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/10/18 12:50
 Date Received: 08/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/15/18 19:49
 Analyst: RC
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 08/14/18 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Fluoranthene	680		ug/kg	120	23.	1
Naphthalene	29	J	ug/kg	200	25.	1
Benzo(a)anthracene	370		ug/kg	120	23.	1
Benzo(a)pyrene	360		ug/kg	160	50.	1
Benzo(b)fluoranthene	500		ug/kg	120	34.	1
Benzo(k)fluoranthene	160		ug/kg	120	32.	1
Chrysene	390		ug/kg	120	21.	1
Acenaphthylene	110	J	ug/kg	160	31.	1
Anthracene	100	J	ug/kg	120	40.	1
Benzo(ghi)perylene	250		ug/kg	160	24.	1
Fluorene	30	J	ug/kg	200	20.	1
Phenanthrene	300		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	75	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	270		ug/kg	160	28.	1
Pyrene	620		ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	86		30-120
4-Terphenyl-d14	79		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1831141
Report Date: 08/20/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/15/18 23:12
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/14/18 13:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1146364-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 300 WEST 122ND ST.**Lab Number:** L1831141**Project Number:** 170500202**Report Date:** 08/20/18**Method Blank Analysis
Batch Quality Control**Analytical Method: 1,8270D
Analytical Date: 08/15/18 23:12
Analyst: RCExtraction Method: EPA 3546
Extraction Date: 08/14/18 13:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1146364-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	101		10-136
4-Terphenyl-d14	92		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1831141

Project Number: 170500202

Report Date: 08/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1146364-2 WG1146364-3								
Acenaphthene	87		78		31-137	11		50
Fluoranthene	94		83		40-140	12		50
Naphthalene	87		77		40-140	12		50
Benzo(a)anthracene	88		79		40-140	11		50
Benzo(a)pyrene	91		81		40-140	12		50
Benzo(b)fluoranthene	94		77		40-140	20		50
Benzo(k)fluoranthene	85		84		40-140	1		50
Chrysene	91		81		40-140	12		50
Acenaphthylene	92		82		40-140	11		50
Anthracene	95		81		40-140	16		50
Benzo(ghi)perylene	92		80		40-140	14		50
Fluorene	90		82		40-140	9		50
Phenanthrene	92		80		40-140	14		50
Dibenzo(a,h)anthracene	89		78		40-140	13		50
Indeno(1,2,3-cd)pyrene	85		77		40-140	10		50
Pyrene	94		82		35-142	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1831141

Report Date: 08/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1146364-2 WG1146364-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	88		74		25-120
Phenol-d6	88		73		10-120
Nitrobenzene-d5	94		77		23-120
2-Fluorobiphenyl	89		75		30-120
2,4,6-Tribromophenol	96		82		10-136
4-Terphenyl-d14	88		72		18-120

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1831141

Report Date: 08/20/18

SAMPLE RESULTS

Lab ID: L1831141-01

Client ID: UST07_B1_13-14

Sample Location: 300 WEST 122ND ST.

Date Collected: 08/09/18 14:50

Date Received: 08/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

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	-	08/13/18 10:54	121,2540G	JK



Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1831141

Report Date: 08/20/18

SAMPLE RESULTS

Lab ID: L1831141-02

Client ID: UST07_B2_13-14

Sample Location: 300 WEST 122ND ST.

Date Collected: 08/09/18 14:50

Date Received: 08/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.2		%	0.100	NA	1	-	08/13/18 10:54	121,2540G	JK



Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1831141

Report Date: 08/20/18

SAMPLE RESULTS

Lab ID: L1831141-03

Client ID: UST07_B2_13-14

Sample Location: 300 WEST 122ND ST.

Date Collected: 08/10/18 12:50

Date Received: 08/10/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.4		%	0.100	NA	1	-	08/18/18 00:21	121,2540G	SH



Lab Duplicate Analysis *Batch Quality Control*

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1831141

Report Date: 08/20/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1145838-1 QC Sample: L1831170-05 Client ID: DUP Sample						
Solids, Total	93.6	94.4	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1147990-1 QC Sample: L1831141-03 Client ID: UST07_B2_13-14						
Solids, Total	80.4	79.9	%	1		20

Project Name: 300 WEST 122ND ST.**Lab Number:** L1831141**Project Number:** 170500202**Report Date:** 08/20/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
A1	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1831141-01A	Vial MeOH preserved	A	NA		2.4	Y	Absent		NYTCL-8260HLW(14)
L1831141-01B	Vial water preserved	A	NA		2.4	Y	Absent	10-AUG-18 10:35	NYTCL-8260HLW(14)
L1831141-01C	Vial water preserved	A	NA		2.4	Y	Absent	10-AUG-18 10:35	NYTCL-8260HLW(14)
L1831141-01D	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1831141-01E	Glass 500ml/16oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14)
L1831141-02A	Vial MeOH preserved	A	NA		2.4	Y	Absent		NYTCL-8260HLW(14)
L1831141-02B	Vial water preserved	A	NA		2.4	Y	Absent	10-AUG-18 10:35	NYTCL-8260HLW(14)
L1831141-02C	Vial water preserved	A	NA		2.4	Y	Absent	10-AUG-18 10:35	NYTCL-8260HLW(14)
L1831141-02D	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1831141-02E	Glass 120ml/4oz unpreserved	A1	NA		3.2	Y	Absent		-
L1831141-03E	Glass 120ml/4oz unpreserved	A1	NA		3.2	Y	Absent		NYTCL-8270(14),TS(7)

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1831141
Report Date: 08/20/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1831141
Report Date: 08/20/18

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 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 exceedances 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: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1831141
Report Date: 08/20/18

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.



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: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, 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, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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 YORK 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 _____ of _____		Date Rec'd in Lab 8/9/18		ALPHA Job # L1891191																																																																																										
		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: 300 WEST 122ND ST Project Location: 300 WEST 122ND ST Project # 170500202 (Use Project name as Project #) ###		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO # _____																																																																																								
Client Information Client: LANCAN Address: 360 WEST 31ST ST 8TH FLOOR Phone: 212-479-5400 Fax: _____ Email: G.WIKAC@LANCAN.COM		Project Manager: GREG WYKA ALPHAQuote #: _____ Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: _____ Rush (only if pre approved) <input type="checkbox"/> # of Days: _____		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input checked="" type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other: _____																																																																																												
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Relinquished By: <u>DANIEL EIDA</u> <u>8-10-18 17:50</u>		Date/Time: <u>08/10/18 13:30</u>		Received By: <u>D. Santos</u> <u>8-10-18 13:30</u>		Date/Time: <u>8/10/18 2250</u>																																																	



ANALYTICAL REPORT

Lab Number:	L1831308
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	170500202
Project Number:	170500202
Report Date:	08/17/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 170500202**Project Number:** 170500202**Lab Number:** L1831308**Report Date:** 08/17/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1831308-01	UST07_B2_13-14	SOIL	300 WEST 122ND ST.	08/10/18 12:50	08/10/18
L1831308-02	UST08_B1_13-14	SOIL	300 WEST 122ND ST.	08/10/18 13:00	08/10/18
L1831308-03	UST08_B2_13-14	SOIL	300 WEST 122ND ST.	08/10/18 13:00	08/10/18
L1831308-04	UST09_B1_11-12	SOIL	300 WEST 122ND ST.	08/10/18 13:10	08/10/18
L1831308-05	UST09_B2_11-12	SOIL	300 WEST 122ND ST.	08/10/18 13:20	08/10/18

Project Name: 170500202**Lab Number:** L1831308**Project Number:** 170500202**Report Date:** 08/17/18

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: 170500202
Project Number: 170500202

Lab Number: L1831308
Report Date: 08/17/18

Case Narrative (continued)

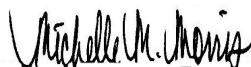
Report Submission

The results of sample "UST07_B2_13-14" will be issued under separate cover.

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

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 08/17/18

ORGANICS

VOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831308
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831308-02
 Client ID: UST08_B1_13-14
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/10/18 13:00
 Date Received: 08/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/17/18 06:13
 Analyst: NLK
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.63	1
o-Xylene	0.60	J	ug/kg	1.1	0.33	1
Xylenes, Total	0.60	J	ug/kg	1.1	0.33	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.73	1
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,3,5-Trimethylbenzene	1.5	J	ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	0.98	J	ug/kg	2.2	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	99		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831308
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831308-03
 Client ID: UST08_B2_13-14
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/10/18 13:00
 Date Received: 08/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/17/18 06:40
 Analyst: NLK
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	0.37	J	ug/kg	1.1	0.31	1
Xylenes, Total	0.37	J	ug/kg	1.1	0.31	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.2	0.69	1
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,3,5-Trimethylbenzene	0.90	J	ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	0.66	J	ug/kg	2.1	0.35	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	99		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831308
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831308-04
 Client ID: UST09_B1_11-12
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/10/18 13:10
 Date Received: 08/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/17/18 07:08
 Analyst: NLK
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	95		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831308
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831308-05
 Client ID: UST09_B2_11-12
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/10/18 13:20
 Date Received: 08/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/17/18 11:14
 Analyst: NLK
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.78	0.26	1
Toluene	ND		ug/kg	1.6	0.85	1
Ethylbenzene	ND		ug/kg	1.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	3.1	0.31	1
p/m-Xylene	ND		ug/kg	3.1	0.87	1
o-Xylene	ND		ug/kg	1.6	0.45	1
Xylenes, Total	ND		ug/kg	1.6	0.45	1
n-Butylbenzene	ND		ug/kg	1.6	0.26	1
sec-Butylbenzene	ND		ug/kg	1.6	0.23	1
tert-Butylbenzene	ND		ug/kg	3.1	0.18	1
Isopropylbenzene	ND		ug/kg	1.6	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.17	1
Naphthalene	ND		ug/kg	6.2	1.0	1
n-Propylbenzene	ND		ug/kg	1.6	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	0.30	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	90		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831308
Report Date: 08/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/16/18 21:53
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-04 Batch: WG1147587-5					
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831308
Report Date: 08/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/17/18 09:07
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05 Batch: WG1147825-5					
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	86		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1831308

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04 Batch: WG1147587-3 WG1147587-4								
Benzene	102		99		70-130	3		30
Toluene	89		88		70-130	1		30
Ethylbenzene	91		89		70-130	2		30
Methyl tert butyl ether	99		99		66-130	0		30
p/m-Xylene	85		84		70-130	1		30
o-Xylene	84		83		70-130	1		30
n-Butylbenzene	90		89		70-130	1		30
sec-Butylbenzene	86		86		70-130	0		30
tert-Butylbenzene	83		83		70-130	0		30
Isopropylbenzene	84		83		70-130	1		30
p-Isopropyltoluene	85		84		70-130	1		30
Naphthalene	79		82		70-130	4		30
n-Propylbenzene	88		87		70-130	1		30
1,3,5-Trimethylbenzene	84		83		70-130	1		30
1,2,4-Trimethylbenzene	85		84		70-130	1		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	102		102		70-130
Toluene-d8	94		96		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	95		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1831308

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05 Batch: WG1147825-3 WG1147825-4								
Benzene	100		95		70-130	5		30
Toluene	99		94		70-130	5		30
Ethylbenzene	99		95		70-130	4		30
Methyl tert butyl ether	94		91		66-130	3		30
p/m-Xylene	96		93		70-130	3		30
o-Xylene	96		92		70-130	4		30
n-Butylbenzene	105		101		70-130	4		30
sec-Butylbenzene	104		99		70-130	5		30
tert-Butylbenzene	100		96		70-130	4		30
Isopropylbenzene	104		99		70-130	5		30
p-Isopropyltoluene	100		96		70-130	4		30
Naphthalene	96		93		70-130	3		30
n-Propylbenzene	106		101		70-130	5		30
1,3,5-Trimethylbenzene	102		98		70-130	4		30
1,2,4-Trimethylbenzene	100		96		70-130	4		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	93		93		70-130
Toluene-d8	105		105		70-130
4-Bromofluorobenzene	110		109		70-130
Dibromofluoromethane	90		91		70-130

SEMIVOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831308
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831308-02
 Client ID: UST08_B1_13-14
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/10/18 13:00
 Date Received: 08/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/16/18 14:07
 Analyst: RC
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 20:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	20	J	ug/kg	140	18.	1
Fluoranthene	810		ug/kg	110	20.	1
Naphthalene	81	J	ug/kg	180	22.	1
Benzo(a)anthracene	430		ug/kg	110	20.	1
Benzo(a)pyrene	420		ug/kg	140	44.	1
Benzo(b)fluoranthene	600		ug/kg	110	30.	1
Benzo(k)fluoranthene	180		ug/kg	110	28.	1
Chrysene	460		ug/kg	110	18.	1
Acenaphthylene	200		ug/kg	140	28.	1
Anthracene	140		ug/kg	110	35.	1
Benzo(ghi)perylene	300		ug/kg	140	21.	1
Fluorene	39	J	ug/kg	180	17.	1
Phenanthrene	440		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	82	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	340		ug/kg	140	25.	1
Pyrene	720		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	81		30-120
4-Terphenyl-d14	81		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831308
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831308-03
 Client ID: UST08_B2_13-14
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/10/18 13:00
 Date Received: 08/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/16/18 14:31
 Analyst: RC
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 20:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	32	J	ug/kg	140	19.	1
Fluoranthene	2500		ug/kg	110	21.	1
Naphthalene	120	J	ug/kg	180	22.	1
Benzo(a)anthracene	1300		ug/kg	110	20.	1
Benzo(a)pyrene	1000		ug/kg	140	44.	1
Benzo(b)fluoranthene	1600		ug/kg	110	30.	1
Benzo(k)fluoranthene	500		ug/kg	110	29.	1
Chrysene	1300		ug/kg	110	19.	1
Acenaphthylene	470		ug/kg	140	28.	1
Anthracene	440		ug/kg	110	35.	1
Benzo(ghi)perylene	640		ug/kg	140	21.	1
Fluorene	150	J	ug/kg	180	18.	1
Phenanthrene	1700		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	210		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	740		ug/kg	140	25.	1
Pyrene	2000		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	87		30-120
4-Terphenyl-d14	84		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831308
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831308-04
Client ID: UST09_B1_11-12
Sample Location: 300 WEST 122ND ST.

Date Collected: 08/10/18 13:10
Date Received: 08/10/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/16/18 14:55
Analyst: RC
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 08/15/18 20:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	34	J	ug/kg	140	19.	1
Fluoranthene	1400		ug/kg	110	21.	1
Naphthalene	54	J	ug/kg	180	22.	1
Benzo(a)anthracene	800		ug/kg	110	20.	1
Benzo(a)pyrene	720		ug/kg	140	44.	1
Benzo(b)fluoranthene	970		ug/kg	110	31.	1
Benzo(k)fluoranthene	350		ug/kg	110	29.	1
Chrysene	790		ug/kg	110	19.	1
Acenaphthylene	240		ug/kg	140	28.	1
Anthracene	210		ug/kg	110	36.	1
Benzo(ghi)perylene	520		ug/kg	140	21.	1
Fluorene	58	J	ug/kg	180	18.	1
Phenanthrene	610		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	140		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	560		ug/kg	140	25.	1
Pyrene	1300		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	88		30-120
4-Terphenyl-d14	86		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831308
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831308-05
 Client ID: UST09_B2_11-12
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/10/18 13:20
 Date Received: 08/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/16/18 15:19
 Analyst: RC
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 20:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Fluoranthene	340		ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	25.	1
Benzo(a)anthracene	180		ug/kg	120	23.	1
Benzo(a)pyrene	170		ug/kg	160	50.	1
Benzo(b)fluoranthene	220		ug/kg	120	34.	1
Benzo(k)fluoranthene	82	J	ug/kg	120	33.	1
Chrysene	180		ug/kg	120	21.	1
Acenaphthylene	70	J	ug/kg	160	32.	1
Anthracene	54	J	ug/kg	120	40.	1
Benzo(ghi)perylene	110	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	160		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	34	J	ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	120	J	ug/kg	160	28.	1
Pyrene	320		ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	75		30-120
4-Terphenyl-d14	73		18-120

Project Name: 170500202

Lab Number: L1831308

Project Number: 170500202

Report Date: 08/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 08/16/18 10:26
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 20:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-05 Batch: WG1146985-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 170500202

Lab Number: L1831308

Project Number: 170500202

Report Date: 08/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 08/16/18 10:26
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 20:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-05 Batch: WG1146985-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	70		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1831308

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05 Batch: WG1146985-2 WG1146985-3								
Acenaphthene	73		80		31-137	9		50
Fluoranthene	78		79		40-140	1		50
Naphthalene	72		78		40-140	8		50
Benzo(a)anthracene	73		77		40-140	5		50
Benzo(a)pyrene	80		86		40-140	7		50
Benzo(b)fluoranthene	79		83		40-140	5		50
Benzo(k)fluoranthene	74		82		40-140	10		50
Chrysene	75		81		40-140	8		50
Acenaphthylene	78		81		40-140	4		50
Anthracene	78		80		40-140	3		50
Benzo(ghi)perylene	77		81		40-140	5		50
Fluorene	77		81		40-140	5		50
Phenanthrene	76		79		40-140	4		50
Dibenzo(a,h)anthracene	77		84		40-140	9		50
Indeno(1,2,3-cd)pyrene	77		84		40-140	9		50
Pyrene	79		78		35-142	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831308
Report Date: 08/17/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05 Batch: WG1146985-2 WG1146985-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	83		84		25-120
Phenol-d6	87		88		10-120
Nitrobenzene-d5	84		86		23-120
2-Fluorobiphenyl	78		78		30-120
2,4,6-Tribromophenol	82		85		10-136
4-Terphenyl-d14	79		76		18-120

INORGANICS & MISCELLANEOUS

Project Name: 170500202

Lab Number: L1831308

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831308-02

Date Collected: 08/10/18 13:00

Client ID: UST08_B1_13-14

Date Received: 08/10/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.5		%	0.100	NA	1	-	08/14/18 02:04	121,2540G	FN



Project Name: 170500202

Lab Number: L1831308

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831308-03

Date Collected: 08/10/18 13:00

Client ID: UST08_B2_13-14

Date Received: 08/10/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	08/14/18 02:04	121,2540G	FN



Project Name: 170500202

Lab Number: L1831308

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831308-04

Date Collected: 08/10/18 13:10

Client ID: UST09_B1_11-12

Date Received: 08/10/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

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	-	08/14/18 02:04	121,2540G	FN



Project Name: 170500202

Lab Number: L1831308

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831308-05

Date Collected: 08/10/18 13:20

Client ID: UST09_B2_11-12

Date Received: 08/10/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.1		%	0.100	NA	1	-	08/14/18 02:04	121,2540G	FN



Lab Duplicate Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831308

Report Date: 08/17/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-05 QC Batch ID: WG1146061-1 QC Sample: L1831303-01 Client ID: DUP Sample						
Solids, Total	83.1	83.6	%	1		20

Project Name: 170500202

Lab Number: L1831308

Project Number: 170500202

Report Date: 08/17/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1831308-01A	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		CANCELLED()
L1831308-02A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L1831308-02B	Vial water preserved	A	NA		3.2	Y	Absent	11-AUG-18 23:02	NYTCL-8260HLW(14)
L1831308-02C	Vial water preserved	A	NA		3.2	Y	Absent	11-AUG-18 23:02	NYTCL-8260HLW(14)
L1831308-02D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1831308-02E	Glass 500ml/16oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)
L1831308-03A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L1831308-03B	Vial water preserved	A	NA		3.2	Y	Absent	11-AUG-18 23:02	NYTCL-8260HLW(14)
L1831308-03C	Vial water preserved	A	NA		3.2	Y	Absent	11-AUG-18 23:02	NYTCL-8260HLW(14)
L1831308-03D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1831308-03E	Glass 500ml/16oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)
L1831308-04A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L1831308-04B	Vial water preserved	A	NA		3.2	Y	Absent	11-AUG-18 23:02	NYTCL-8260HLW(14)
L1831308-04C	Vial water preserved	A	NA		3.2	Y	Absent	11-AUG-18 23:02	NYTCL-8260HLW(14)
L1831308-04D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1831308-04E	Glass 500ml/16oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)
L1831308-05A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L1831308-05B	Vial water preserved	A	NA		3.2	Y	Absent	11-AUG-18 23:02	NYTCL-8260HLW(14)
L1831308-05C	Vial water preserved	A	NA		3.2	Y	Absent	11-AUG-18 23:02	NYTCL-8260HLW(14)
L1831308-05D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1831308-05E	Glass 500ml/16oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831308
Report Date: 08/17/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 170500202
Project Number: 170500202

Lab Number: L1831308
Report Date: 08/17/18

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 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 exceedances 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: 170500202
Project Number: 170500202

Lab Number: L1831308
Report Date: 08/17/18

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.



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: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, 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, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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 YORK 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 of	Date Rec'd in Lab 8/10/18	ALPHA Job # L1831508																
	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: 170500202 Project Location: 300 WEST 122nd ST Project # 170500202 (Use Project name as Project #) <input type="checkbox"/>																	
Client Information Client: LANCAN Address: 360 WEST 31st ST 8th FLOOR Phone: 212-479-5400 Fax: Email: G.WYKA@LANCAN.COM		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other <input checked="" type="checkbox"/> EMAIL																		
Turn-Around Time Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input checked="" type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge																		
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																		
		ANALYSIS																		
		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)																		
		Total Bottles																		
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	CP-51 VOC's	SVOC'S													
		Date	Time																	
31308-01	UST07-B2-13-14	08/10	12:50	SOIL	DE	X														
-02	UST08-B1-13-14	08/10	1300	SOIL	DE	X														
-03	UST08-B2-13-14	08/10	1300	SOIL	DE	X														
-04	UST09-B1-11-12	08/10	1310	SOIL	DE	X														
-05	UST09-B2-11-12	08/10	1320	SOIL	DE	X														
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:		Date/Time		Received By:		Date/Time												
		DANIEL ELDA		08/10/18 13:30		[Signature]		8-10-18 13:30												
		[Signature]		8-10-18 17:50		D. Santos		8/10/18 1800												
		D. Santos		8/10/18 2250		[Signature]		8/10/18 2250												



ANALYTICAL REPORT

Lab Number:	L1841056
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	170500202
Project Number:	170500202
Report Date:	10/15/18

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 170500202

Project Number: 170500202

Lab Number: L1841056

Report Date: 10/15/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1841056-01	UST10_B1_17-18	SOIL	300 W. 122ND ST.	10/10/18 12:00	10/10/18
L1841056-02	UST10_B2_17-18	SOIL	300 W. 122ND ST.	10/10/18 12:05	10/10/18
L1841056-03	UST10_N_SW_15-16	SOIL	300 W. 122ND ST.	10/10/18 12:10	10/10/18
L1841056-04	UST10_E_SW_15-16	SOIL	300 W. 122ND ST.	10/10/18 12:15	10/10/18
L1841056-05	UST10_S_SW_15-16	SOIL	300 W. 122ND ST.	10/10/18 12:20	10/10/18
L1841056-06	UST10W_S_SW_15-16	SOIL	300 W. 122ND ST.	10/10/18 12:25	10/10/18
L1841056-07	UST11_B1_20-21	SOIL	300 W. 122ND ST.	10/10/18 12:30	10/10/18
L1841056-08	UST11_B2_20-21	SOIL	300 W. 122ND ST.	10/10/18 12:35	10/10/18
L1841056-09	UST11_E_SW_18-19	SOIL	300 W. 122ND ST.	10/10/18 12:40	10/10/18
L1841056-10	UST11_S_SW_18-19	SOIL	300 W. 122ND ST.	10/10/18 12:45	10/10/18
L1841056-11	UST11_W_SW_18-19	SOIL	300 W. 122ND ST.	10/10/18 12:50	10/10/18
L1841056-12	UST12_B2_20-21	SOIL	300 W. 122ND ST.	10/10/18 12:55	10/10/18
L1841056-13	UST12_B1_20-21	SOIL	300 W. 122ND ST.	10/10/18 13:00	10/10/18
L1841056-14	UST12_N_SW_18-19	SOIL	300 W. 122ND ST.	10/10/18 13:05	10/10/18
L1841056-15	UST12_E_SW_18-19	SOIL	300 W. 122ND ST.	10/10/18 13:10	10/10/18
L1841056-16	UST12_W_SW_18-19	SOIL	300 W. 122ND ST.	10/10/18 13:15	10/10/18

Project Name: 170500202**Lab Number:** L1841056**Project Number:** 170500202**Report Date:** 10/15/18

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: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

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

The analyses performed were specified by the client.

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: 10/15/18

ORGANICS

VOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-01
 Client ID: UST10_B1_17-18
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:00
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/11/18 20:25
 Analyst: MV
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	3.1		ug/kg	0.71	0.24	1
Toluene	3.0		ug/kg	1.4	0.77	1
Ethylbenzene	0.20	J	ug/kg	1.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.80	1
o-Xylene	ND		ug/kg	1.4	0.41	1
Xylenes, Total	ND		ug/kg	1.4	0.41	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.21	1
tert-Butylbenzene	ND		ug/kg	2.8	0.17	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.7	0.92	1
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	94		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-02
 Client ID: UST10_B2_17-18
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:05
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/11/18 20:51
 Analyst: MV
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	1.1		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.6	0.74	1
n-Propylbenzene	0.33	J	ug/kg	1.1	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	91		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-03
 Client ID: UST10_N_SW_15-16
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:10
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/11/18 21:16
 Analyst: MV
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	0.37	J	ug/kg	0.64	0.21	1
Toluene	0.77	J	ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.2	0.84	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	92		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-04
 Client ID: UST10_E_SW_15-16
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:15
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/11/18 21:42
 Analyst: MV
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.72	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.27	1
p/m-Xylene	ND		ug/kg	2.6	0.74	1
o-Xylene	ND		ug/kg	1.3	0.39	1
Xylenes, Total	ND		ug/kg	1.3	0.39	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.16	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.3	0.86	1
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	93		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-05
 Client ID: UST10_S_SW_15-16
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:20
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/11/18 22:08
 Analyst: MV
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.63	0.21	1
Toluene	ND		ug/kg	1.2	0.68	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.70	1
o-Xylene	ND		ug/kg	1.2	0.37	1
Xylenes, Total	ND		ug/kg	1.2	0.37	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	ND		ug/kg	5.0	0.82	1
n-Propylbenzene	ND		ug/kg	1.2	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	96		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-06
 Client ID: UST10W_S_SW_15-16
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:25
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/11/18 22:33
 Analyst: MV
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	97		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-07
 Client ID: UST11_B1_20-21
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:30
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/12/18 10:03
 Analyst: JC
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	2.6		ug/kg	0.74	0.25	1
Toluene	180		ug/kg	1.5	0.81	1
Ethylbenzene	77		ug/kg	1.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	440		ug/kg	3.0	0.83	1
o-Xylene	210		ug/kg	1.5	0.43	1
Xylenes, Total	650		ug/kg	1.5	0.43	1
n-Butylbenzene	11		ug/kg	1.5	0.25	1
sec-Butylbenzene	5.4		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.0	0.18	1
Isopropylbenzene	7.5		ug/kg	1.5	0.16	1
p-Isopropyltoluene	3.3		ug/kg	1.5	0.16	1
Naphthalene	39		ug/kg	5.9	0.96	1
n-Propylbenzene	28		ug/kg	1.5	0.25	1
1,3,5-Trimethylbenzene	83		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	300		ug/kg	3.0	0.50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	96		70-130

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-08
 Client ID: UST11_B2_20-21
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:35
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/11/18 22:11
 Analyst: MV
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	24	J	ug/kg	33	11.	1
Toluene	390		ug/kg	66	36.	1
Ethylbenzene	170		ug/kg	66	9.4	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	860		ug/kg	130	37.	1
o-Xylene	340		ug/kg	66	19.	1
Xylenes, Total	1200		ug/kg	66	19.	1
n-Butylbenzene	46	J	ug/kg	66	11.	1
sec-Butylbenzene	16	J	ug/kg	66	9.7	1
tert-Butylbenzene	ND		ug/kg	130	7.8	1
Isopropylbenzene	16	J	ug/kg	66	7.2	1
p-Isopropyltoluene	9.6	J	ug/kg	66	7.2	1
Naphthalene	160	J	ug/kg	270	43.	1
n-Propylbenzene	80		ug/kg	66	11.	1
1,3,5-Trimethylbenzene	170		ug/kg	130	13.	1
1,2,4-Trimethylbenzene	640		ug/kg	130	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-09
 Client ID: UST11_E_SW_18-19
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:40
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/11/18 22:59
 Analyst: MV
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	0.26	J	ug/kg	0.64	0.21	1
Toluene	2.3		ug/kg	1.3	0.70	1
Ethylbenzene	0.51	J	ug/kg	1.3	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	2.0	J	ug/kg	2.6	0.72	1
o-Xylene	0.84	J	ug/kg	1.3	0.37	1
Xylenes, Total	2.8	J	ug/kg	1.3	0.37	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.1	0.83	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,3,5-Trimethylbenzene	0.44	J	ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	1.3	J	ug/kg	2.6	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	96		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-10
 Client ID: UST11_S_SW_18-19
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:45
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/11/18 23:24
 Analyst: MV
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	9.0		ug/kg	0.58	0.19	1
Toluene	26		ug/kg	1.2	0.63	1
Ethylbenzene	7.0		ug/kg	1.2	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	8.8		ug/kg	2.3	0.65	1
o-Xylene	11		ug/kg	1.2	0.34	1
Xylenes, Total	20		ug/kg	1.2	0.34	1
n-Butylbenzene	0.68	J	ug/kg	1.2	0.19	1
sec-Butylbenzene	0.47	J	ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
Isopropylbenzene	0.83	J	ug/kg	1.2	0.13	1
p-Isopropyltoluene	0.41	J	ug/kg	1.2	0.13	1
Naphthalene	2.9	J	ug/kg	4.6	0.75	1
n-Propylbenzene	2.5		ug/kg	1.2	0.20	1
1,3,5-Trimethylbenzene	5.4		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	1.8	J	ug/kg	2.3	0.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	96		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-11
 Client ID: UST11_W_SW_18-19
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:50
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/11/18 23:50
 Analyst: MV
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	0.31	J	ug/kg	0.54	0.18	1
Toluene	10		ug/kg	1.1	0.59	1
Ethylbenzene	2.0		ug/kg	1.1	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	8.8		ug/kg	2.2	0.61	1
o-Xylene	3.6		ug/kg	1.1	0.32	1
Xylenes, Total	12		ug/kg	1.1	0.32	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
n-Propylbenzene	0.30	J	ug/kg	1.1	0.18	1
1,3,5-Trimethylbenzene	0.67	J	ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	1.8	J	ug/kg	2.2	0.36	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	96		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-12
 Client ID: UST12_B2_20-21
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:55
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/12/18 00:41
 Analyst: MV
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	18	J	ug/kg	33	11.	1
Toluene	540		ug/kg	67	36.	1
Ethylbenzene	220		ug/kg	67	9.4	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	1100		ug/kg	130	37.	1
o-Xylene	460		ug/kg	67	19.	1
Xylenes, Total	1600		ug/kg	67	19.	1
n-Butylbenzene	40	J	ug/kg	67	11.	1
sec-Butylbenzene	13	J	ug/kg	67	9.7	1
tert-Butylbenzene	ND		ug/kg	130	7.9	1
Isopropylbenzene	16	J	ug/kg	67	7.3	1
p-Isopropyltoluene	7.6	J	ug/kg	67	7.3	1
Naphthalene	120	J	ug/kg	270	43.	1
n-Propylbenzene	80		ug/kg	67	11.	1
1,3,5-Trimethylbenzene	170		ug/kg	130	13.	1
1,2,4-Trimethylbenzene	660		ug/kg	130	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-13
Client ID: UST12_B1_20-21
Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 13:00
Date Received: 10/10/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/12/18 01:08
Analyst: MV
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	29	J	ug/kg	47	16.	1
Toluene	850		ug/kg	94	51.	1
Ethylbenzene	340		ug/kg	94	13.	1
Methyl tert butyl ether	ND		ug/kg	190	19.	1
p/m-Xylene	1800		ug/kg	190	52.	1
o-Xylene	760		ug/kg	94	27.	1
Xylenes, Total	2600		ug/kg	94	27.	1
n-Butylbenzene	82	J	ug/kg	94	16.	1
sec-Butylbenzene	27	J	ug/kg	94	14.	1
tert-Butylbenzene	ND		ug/kg	190	11.	1
Isopropylbenzene	30	J	ug/kg	94	10.	1
p-Isopropyltoluene	15	J	ug/kg	94	10.	1
Naphthalene	230	J	ug/kg	370	61.	1
n-Propylbenzene	140		ug/kg	94	16.	1
1,3,5-Trimethylbenzene	320		ug/kg	190	18.	1
1,2,4-Trimethylbenzene	1200		ug/kg	190	31.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	99		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-14
 Client ID: UST12_N_SW_18-19
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 13:05
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/12/18 09:10
 Analyst: JC
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	2.1		ug/kg	0.72	0.24	1
Toluene	93		ug/kg	1.4	0.79	1
Ethylbenzene	36		ug/kg	1.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.9	0.29	1
p/m-Xylene	180		ug/kg	2.9	0.81	1
o-Xylene	87		ug/kg	1.4	0.42	1
Xylenes, Total	270		ug/kg	1.4	0.42	1
n-Butylbenzene	5.1		ug/kg	1.4	0.24	1
sec-Butylbenzene	2.9		ug/kg	1.4	0.21	1
tert-Butylbenzene	ND		ug/kg	2.9	0.17	1
Isopropylbenzene	4.0		ug/kg	1.4	0.16	1
p-Isopropyltoluene	1.8		ug/kg	1.4	0.16	1
Naphthalene	11		ug/kg	5.8	0.94	1
n-Propylbenzene	14		ug/kg	1.4	0.25	1
1,3,5-Trimethylbenzene	37		ug/kg	2.9	0.28	1
1,2,4-Trimethylbenzene	100		ug/kg	2.9	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	91		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-15
 Client ID: UST12_E_SW_18-19
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 13:10
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/12/18 00:41
 Analyst: MV
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	30	J	ug/kg	40	13.	1
Toluene	1300		ug/kg	81	44.	1
Ethylbenzene	610		ug/kg	81	11.	1
Methyl tert butyl ether	ND		ug/kg	160	16.	1
p/m-Xylene	3300		ug/kg	160	45.	1
o-Xylene	1200		ug/kg	81	24.	1
Xylenes, Total	4500		ug/kg	81	24.	1
n-Butylbenzene	160		ug/kg	81	13.	1
sec-Butylbenzene	61	J	ug/kg	81	12.	1
tert-Butylbenzene	ND		ug/kg	160	9.5	1
Isopropylbenzene	59	J	ug/kg	81	8.8	1
p-Isopropyltoluene	25	J	ug/kg	81	8.8	1
Naphthalene	420		ug/kg	320	52.	1
n-Propylbenzene	260		ug/kg	81	14.	1
1,3,5-Trimethylbenzene	550		ug/kg	160	16.	1
1,2,4-Trimethylbenzene	1900		ug/kg	160	27.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	92		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-16
 Client ID: UST12_W_SW_18-19
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 13:15
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/12/18 01:06
 Analyst: MV
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	33		ug/kg	33	11.	1
Toluene	1200		ug/kg	66	36.	1
Ethylbenzene	490		ug/kg	66	9.3	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	2600		ug/kg	130	37.	1
o-Xylene	970		ug/kg	66	19.	1
Xylenes, Total	3600		ug/kg	66	19.	1
n-Butylbenzene	64	J	ug/kg	66	11.	1
sec-Butylbenzene	26	J	ug/kg	66	9.7	1
tert-Butylbenzene	ND		ug/kg	130	7.8	1
Isopropylbenzene	39	J	ug/kg	66	7.2	1
p-Isopropyltoluene	13	J	ug/kg	66	7.2	1
Naphthalene	170	J	ug/kg	260	43.	1
n-Propylbenzene	160		ug/kg	66	11.	1
1,3,5-Trimethylbenzene	360		ug/kg	130	13.	1
1,2,4-Trimethylbenzene	1200		ug/kg	130	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	93		70-130

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/11/18 19:59
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06,09-11 Batch: WG1167307-5					
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Tentatively Identified Compounds

Total TIC Compounds	2.81	J	ug/kg
Unknown	2.81	J	ug/kg

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 10/11/18 19:59

Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06,09-11 Batch: WG1167307-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	90		70-130

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 10/11/18 19:59
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 15-16 Batch: WG1167313-5					
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
n-Propylbenzene	ND		ug/kg	50	8.6
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.

Tentatively Identified Compounds

Total TIC Compounds	140	J	ug/kg
Unknown	140	J	ug/kg

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/11/18 19:59
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 15-16 Batch: WG1167313-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	90		70-130

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/11/18 17:24
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08,12-13 Batch: WG1167527-5					
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
n-Propylbenzene	ND		ug/kg	50	8.6
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/11/18 17:24
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08,12-13 Batch: WG1167527-5					

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

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 10/12/18 08:44
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07,14 Batch: WG1167792-5					
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

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

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06,09-11 Batch: WG1167307-3 WG1167307-4									
Benzene	89		87		70-130		2		30
Toluene	95		94		70-130		1		30
Ethylbenzene	95		93		70-130		2		30
Methyl tert butyl ether	85		84		66-130		1		30
p/m-Xylene	98		96		70-130		2		30
o-Xylene	96		94		70-130		2		30
n-Butylbenzene	104		100		70-130		4		30
sec-Butylbenzene	108		104		70-130		4		30
tert-Butylbenzene	110		107		70-130		3		30
Isopropylbenzene	108		104		70-130		4		30
p-Isopropyltoluene	110		107		70-130		3		30
Naphthalene	109		104		70-130		5		30
n-Propylbenzene	102		100		70-130		2		30
1,3,5-Trimethylbenzene	107		103		70-130		4		30
1,2,4-Trimethylbenzene	104		102		70-130		2		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	94		94		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	98		96		70-130
Dibromofluoromethane	95		96		70-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 15-16 Batch: WG1167313-3 WG1167313-4								
Benzene	89		87		70-130	2		30
Toluene	95		94		70-130	1		30
Ethylbenzene	95		93		70-130	2		30
Methyl tert butyl ether	85		84		66-130	1		30
p/m-Xylene	98		96		70-130	2		30
o-Xylene	96		94		70-130	2		30
n-Butylbenzene	104		100		70-130	4		30
sec-Butylbenzene	108		104		70-130	4		30
tert-Butylbenzene	110		107		70-130	3		30
Isopropylbenzene	108		104		70-130	4		30
p-Isopropyltoluene	110		107		70-130	3		30
Naphthalene	109		104		70-130	5		30
n-Propylbenzene	102		100		70-130	2		30
1,3,5-Trimethylbenzene	107		103		70-130	4		30
1,2,4-Trimethylbenzene	104		102		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		94		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	98		96		70-130
Dibromofluoromethane	95		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08,12-13 Batch: WG1167527-3 WG1167527-4								
Benzene	100		96		70-130	4		30
Toluene	100		96		70-130	4		30
Ethylbenzene	102		97		70-130	5		30
Methyl tert butyl ether	102		100		66-130	2		30
p/m-Xylene	102		97		70-130	5		30
o-Xylene	103		100		70-130	3		30
n-Butylbenzene	101		98		70-130	3		30
sec-Butylbenzene	100		97		70-130	3		30
tert-Butylbenzene	101		98		70-130	3		30
Isopropylbenzene	102		98		70-130	4		30
p-Isopropyltoluene	103		98		70-130	5		30
Naphthalene	105		105		70-130	0		30
n-Propylbenzene	100		97		70-130	3		30
1,3,5-Trimethylbenzene	102		98		70-130	4		30
1,2,4-Trimethylbenzene	103		100		70-130	3		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	100		99		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07,14 Batch: WG1167792-3 WG1167792-4								
Benzene	86		93		70-130	8		30
Toluene	87		95		70-130	9		30
Ethylbenzene	88		95		70-130	8		30
Methyl tert butyl ether	94		98		66-130	4		30
p/m-Xylene	88		94		70-130	7		30
o-Xylene	90		96		70-130	6		30
n-Butylbenzene	88		95		70-130	8		30
sec-Butylbenzene	87		94		70-130	8		30
tert-Butylbenzene	87		95		70-130	9		30
Isopropylbenzene	87		95		70-130	9		30
p-Isopropyltoluene	88		96		70-130	9		30
Naphthalene	99		104		70-130	5		30
n-Propylbenzene	86		94		70-130	9		30
1,3,5-Trimethylbenzene	88		94		70-130	7		30
1,2,4-Trimethylbenzene	89		96		70-130	8		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	98		101		70-130

SEMIVOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-01
 Client ID: UST10_B1_17-18
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:00
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/18 07:47
 Analyst: RC
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Fluoranthene	470		ug/kg	110	21.	1
Naphthalene	70	J	ug/kg	180	22.	1
Benzo(a)anthracene	230		ug/kg	110	20.	1
Benzo(a)pyrene	220		ug/kg	150	44.	1
Benzo(b)fluoranthene	290		ug/kg	110	31.	1
Benzo(k)fluoranthene	92	J	ug/kg	110	29.	1
Chrysene	250		ug/kg	110	19.	1
Acenaphthylene	39	J	ug/kg	150	28.	1
Anthracene	68	J	ug/kg	110	36.	1
Benzo(ghi)perylene	140	J	ug/kg	150	21.	1
Fluorene	22	J	ug/kg	180	18.	1
Phenanthrene	300		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	35	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	140	J	ug/kg	150	25.	1
Pyrene	450		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	86		30-120
4-Terphenyl-d14	74		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-02
 Client ID: UST10_B2_17-18
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:05
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/18 08:12
 Analyst: RC
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	29	J	ug/kg	150	20.	1
Fluoranthene	700		ug/kg	110	22.	1
Naphthalene	62	J	ug/kg	190	23.	1
Benzo(a)anthracene	370		ug/kg	110	21.	1
Benzo(a)pyrene	330		ug/kg	150	46.	1
Benzo(b)fluoranthene	410		ug/kg	110	32.	1
Benzo(k)fluoranthene	130		ug/kg	110	30.	1
Chrysene	360		ug/kg	110	20.	1
Acenaphthylene	36	J	ug/kg	150	29.	1
Anthracene	110		ug/kg	110	37.	1
Benzo(ghi)perylene	190		ug/kg	150	22.	1
Fluorene	37	J	ug/kg	190	18.	1
Phenanthrene	500		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	52	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	200		ug/kg	150	26.	1
Pyrene	760		ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	77		30-120
4-Terphenyl-d14	64		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-03
 Client ID: UST10_N_SW_15-16
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:10
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/18 08:38
 Analyst: RC
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Fluoranthene	180		ug/kg	110	22.	1
Naphthalene	57	J	ug/kg	190	23.	1
Benzo(a)anthracene	94	J	ug/kg	110	21.	1
Benzo(a)pyrene	88	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	120		ug/kg	110	32.	1
Benzo(k)fluoranthene	34	J	ug/kg	110	30.	1
Chrysene	96	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	58	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	120		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	63	J	ug/kg	150	26.	1
Pyrene	160		ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	79		30-120
4-Terphenyl-d14	60		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-04
 Client ID: UST10_E_SW_15-16
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:15
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/18 09:03
 Analyst: RC
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Fluoranthene	200		ug/kg	100	20.	1
Naphthalene	50	J	ug/kg	180	21.	1
Benzo(a)anthracene	110		ug/kg	100	20.	1
Benzo(a)pyrene	100	J	ug/kg	140	43.	1
Benzo(b)fluoranthene	140		ug/kg	100	29.	1
Benzo(k)fluoranthene	46	J	ug/kg	100	28.	1
Chrysene	110		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	72	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	130		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	75	J	ug/kg	140	24.	1
Pyrene	200		ug/kg	100	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	83		30-120
4-Terphenyl-d14	73		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-05
 Client ID: UST10_S_SW_15-16
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:20
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/18 09:28
 Analyst: RC
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Fluoranthene	180		ug/kg	110	21.	1
Naphthalene	92	J	ug/kg	180	22.	1
Benzo(a)anthracene	87	J	ug/kg	110	21.	1
Benzo(a)pyrene	79	J	ug/kg	150	45.	1
Benzo(b)fluoranthene	120		ug/kg	110	31.	1
Benzo(k)fluoranthene	33	J	ug/kg	110	29.	1
Chrysene	97	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	54	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	130		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	56	J	ug/kg	150	26.	1
Pyrene	170		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	60		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-06
 Client ID: UST10W_S_SW_15-16
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:25
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/18 04:26
 Analyst: RC
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Fluoranthene	32	J	ug/kg	110	20.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	30	J	ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	61		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-07
 Client ID: UST11_B1_20-21
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:30
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/18 06:06
 Analyst: RC
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Fluoranthene	300		ug/kg	120	23.	1
Naphthalene	100	J	ug/kg	200	24.	1
Benzo(a)anthracene	150		ug/kg	120	23.	1
Benzo(a)pyrene	140	J	ug/kg	160	49.	1
Benzo(b)fluoranthene	180		ug/kg	120	34.	1
Benzo(k)fluoranthene	60	J	ug/kg	120	32.	1
Chrysene	160		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	55	J	ug/kg	120	39.	1
Benzo(ghi)perylene	93	J	ug/kg	160	24.	1
Fluorene	24	J	ug/kg	200	20.	1
Phenanthrene	250		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	96	J	ug/kg	160	28.	1
Pyrene	300		ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	79		30-120
4-Terphenyl-d14	69		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-08
 Client ID: UST11_B2_20-21
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:35
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/18 04:51
 Analyst: RC
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Fluoranthene	140		ug/kg	120	23.	1
Naphthalene	74	J	ug/kg	200	25.	1
Benzo(a)anthracene	69	J	ug/kg	120	23.	1
Benzo(a)pyrene	63	J	ug/kg	160	50.	1
Benzo(b)fluoranthene	88	J	ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	69	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	42	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	120		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	45	J	ug/kg	160	28.	1
Pyrene	130		ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	80		30-120
4-Terphenyl-d14	68		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-09
 Client ID: UST11_E_SW_18-19
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:40
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/18 04:00
 Analyst: RC
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Fluoranthene	ND		ug/kg	100	20.	1
Naphthalene	ND		ug/kg	170	21.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	17	J	ug/kg	100	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	71		30-120
4-Terphenyl-d14	68		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-10
 Client ID: UST11_S_SW_18-19
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:45
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/18 03:35
 Analyst: RC
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Fluoranthene	28	J	ug/kg	100	20.	1
Naphthalene	ND		ug/kg	170	21.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	21	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	26	J	ug/kg	100	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	88		30-120
4-Terphenyl-d14	79		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-11
 Client ID: UST11_W_SW_18-19
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:50
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/18 01:29
 Analyst: RC
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Fluoranthene	ND		ug/kg	100	20.	1
Naphthalene	ND		ug/kg	180	21.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	71		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-12
 Client ID: UST12_B2_20-21
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:55
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/18 07:22
 Analyst: RC
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Fluoranthene	220		ug/kg	110	22.	1
Naphthalene	75	J	ug/kg	190	23.	1
Benzo(a)anthracene	100	J	ug/kg	110	22.	1
Benzo(a)pyrene	110	J	ug/kg	150	47.	1
Benzo(b)fluoranthene	150		ug/kg	110	32.	1
Benzo(k)fluoranthene	47	J	ug/kg	110	31.	1
Chrysene	120		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	71	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	150		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	74	J	ug/kg	150	27.	1
Pyrene	210		ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	80		30-120
4-Terphenyl-d14	67		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-13
 Client ID: UST12_B1_20-21
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 13:00
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/18 06:32
 Analyst: RC
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Fluoranthene	350		ug/kg	120	23.	1
Naphthalene	110	J	ug/kg	200	24.	1
Benzo(a)anthracene	190		ug/kg	120	22.	1
Benzo(a)pyrene	170		ug/kg	160	49.	1
Benzo(b)fluoranthene	240		ug/kg	120	34.	1
Benzo(k)fluoranthene	61	J	ug/kg	120	32.	1
Chrysene	200		ug/kg	120	21.	1
Acenaphthylene	34	J	ug/kg	160	31.	1
Anthracene	52	J	ug/kg	120	39.	1
Benzo(ghi)perylene	110	J	ug/kg	160	24.	1
Fluorene	21	J	ug/kg	200	19.	1
Phenanthrene	260		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	28	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	160	28.	1
Pyrene	360		ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	80		30-120
4-Terphenyl-d14	64		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-14
 Client ID: UST12_N_SW_18-19
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 13:05
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/18 05:16
 Analyst: RC
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Fluoranthene	290		ug/kg	120	23.	1
Naphthalene	54	J	ug/kg	200	25.	1
Benzo(a)anthracene	140		ug/kg	120	23.	1
Benzo(a)pyrene	120	J	ug/kg	160	49.	1
Benzo(b)fluoranthene	180		ug/kg	120	34.	1
Benzo(k)fluoranthene	55	J	ug/kg	120	32.	1
Chrysene	130		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	80	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	180		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	90	J	ug/kg	160	28.	1
Pyrene	240		ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	59		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-15
 Client ID: UST12_E_SW_18-19
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 13:10
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/18 05:41
 Analyst: RC
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	23	J	ug/kg	160	21.	1
Fluoranthene	490		ug/kg	120	23.	1
Naphthalene	84	J	ug/kg	200	25.	1
Benzo(a)anthracene	200		ug/kg	120	23.	1
Benzo(a)pyrene	170		ug/kg	160	49.	1
Benzo(b)fluoranthene	240		ug/kg	120	34.	1
Benzo(k)fluoranthene	74	J	ug/kg	120	32.	1
Chrysene	190		ug/kg	120	21.	1
Acenaphthylene	52	J	ug/kg	160	31.	1
Anthracene	99	J	ug/kg	120	39.	1
Benzo(ghi)perylene	97	J	ug/kg	160	24.	1
Fluorene	100	J	ug/kg	200	20.	1
Phenanthrene	540		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	27	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	160	28.	1
Pyrene	390		ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	77		30-120
4-Terphenyl-d14	64		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-16
 Client ID: UST12_W_SW_18-19
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 13:15
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/12/18 06:57
 Analyst: RC
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Fluoranthene	140		ug/kg	120	23.	1
Naphthalene	63	J	ug/kg	200	25.	1
Benzo(a)anthracene	76	J	ug/kg	120	23.	1
Benzo(a)pyrene	74	J	ug/kg	160	49.	1
Benzo(b)fluoranthene	100	J	ug/kg	120	34.	1
Benzo(k)fluoranthene	32	J	ug/kg	120	32.	1
Chrysene	76	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	49	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	96	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	53	J	ug/kg	160	28.	1
Pyrene	130		ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	80		30-120
4-Terphenyl-d14	67		18-120

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 10/12/18 01:18
 Analyst: IM

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-16 Batch: WG1167044-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 10/12/18 01:18
 Analyst: IM

Extraction Method: EPA 3546
 Extraction Date: 10/11/18 12:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-16 Batch: WG1167044-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	71		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1841056

Report Date: 10/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-16 Batch: WG1167044-2 WG1167044-3								
Acenaphthene	85		84		31-137	1		50
Fluoranthene	87		81		40-140	7		50
Naphthalene	77		80		40-140	4		50
Benzo(a)anthracene	86		79		40-140	8		50
Benzo(a)pyrene	98		88		40-140	11		50
Benzo(b)fluoranthene	96		88		40-140	9		50
Benzo(k)fluoranthene	98		88		40-140	11		50
Chrysene	93		85		40-140	9		50
Acenaphthylene	81		79		40-140	3		50
Anthracene	91		84		40-140	8		50
Benzo(ghi)perylene	92		82		40-140	11		50
Fluorene	85		83		40-140	2		50
Phenanthrene	87		80		40-140	8		50
Dibenzo(a,h)anthracene	88		80		40-140	10		50
Indeno(1,2,3-cd)pyrene	90		79		40-140	13		50
Pyrene	87		80		35-142	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-16 Batch: WG1167044-2 WG1167044-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
2-Fluorophenol	83		91		25-120
Phenol-d6	80		86		10-120
Nitrobenzene-d5	68		74		23-120
2-Fluorobiphenyl	77		78		30-120
2,4,6-Tribromophenol	96		89		10-136
4-Terphenyl-d14	76		71		18-120

INORGANICS & MISCELLANEOUS

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-01
Client ID: UST10_B1_17-18
Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:00
Date Received: 10/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	10/11/18 12:32	121,2540G	RI



Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-02

Date Collected: 10/10/18 12:05

Client ID: UST10_B2_17-18

Date Received: 10/10/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	10/11/18 12:32	121,2540G	RI



Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-03
 Client ID: UST10_N_SW_15-16
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:10
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	10/11/18 12:32	121,2540G	RI



Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-04

Date Collected: 10/10/18 12:15

Client ID: UST10_E_SW_15-16

Date Received: 10/10/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	10/11/18 12:32	121,2540G	RI



Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-05

Date Collected: 10/10/18 12:20

Client ID: UST10_S_SW_15-16

Date Received: 10/10/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.8		%	0.100	NA	1	-	10/11/18 12:32	121,2540G	RI



Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-06

Date Collected: 10/10/18 12:25

Client ID: UST10W_S_SW_15-16

Date Received: 10/10/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

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	-	10/11/18 12:32	121,2540G	RI



Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-07
 Client ID: UST11_B1_20-21
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:30
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.9		%	0.100	NA	1	-	10/11/18 12:32	121,2540G	RI



Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-08

Date Collected: 10/10/18 12:35

Client ID: UST11_B2_20-21

Date Received: 10/10/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.4		%	0.100	NA	1	-	10/11/18 12:32	121,2540G	RI



Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-09
 Client ID: UST11_E_SW_18-19
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:40
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.2		%	0.100	NA	1	-	10/11/18 12:32	121,2540G	RI



Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-10

Date Collected: 10/10/18 12:45

Client ID: UST11_S_SW_18-19

Date Received: 10/10/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.0		%	0.100	NA	1	-	10/11/18 12:32	121,2540G	RI



Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-11
 Client ID: UST11_W_SW_18-19
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 12:50
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.5		%	0.100	NA	1	-	10/11/18 12:32	121,2540G	RI



Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-12

Date Collected: 10/10/18 12:55

Client ID: UST12_B2_20-21

Date Received: 10/10/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	10/11/18 12:32	121,2540G	RI



Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-13

Date Collected: 10/10/18 13:00

Client ID: UST12_B1_20-21

Date Received: 10/10/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8		%	0.100	NA	1	-	10/11/18 12:32	121,2540G	RI



Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-14

Date Collected: 10/10/18 13:05

Client ID: UST12_N_SW_18-19

Date Received: 10/10/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.2		%	0.100	NA	1	-	10/11/18 12:32	121,2540G	RI



Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-15

Date Collected: 10/10/18 13:10

Client ID: UST12_E_SW_18-19

Date Received: 10/10/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

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	-	10/11/18 12:32	121,2540G	RI



Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

SAMPLE RESULTS

Lab ID: L1841056-16
 Client ID: UST12_W_SW_18-19
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/10/18 13:15
 Date Received: 10/10/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.3		%	0.100	NA	1	-	10/11/18 12:32	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1841056

Report Date: 10/15/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-16 QC Batch ID: WG1167039-1 QC Sample: L1841056-01 Client ID: UST10_B1_17-18						
Solids, Total	89.8	89.6	%	0		20

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1841056-01A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L1841056-01B	Vial water preserved	B	NA		4.1	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-01C	Vial water preserved	B	NA		4.1	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-01D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L1841056-01E	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		NYTCL-8270(14)
L1841056-02A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L1841056-02B	Vial water preserved	B	NA		4.1	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-02C	Vial water preserved	B	NA		4.1	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-02D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L1841056-02E	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		NYTCL-8270(14)
L1841056-03A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L1841056-03B	Vial water preserved	B	NA		4.1	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-03C	Vial water preserved	B	NA		4.1	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-03D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L1841056-03E	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		NYTCL-8270(14)
L1841056-04A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L1841056-04B	Vial water preserved	B	NA		4.1	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-04C	Vial water preserved	B	NA		4.1	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-04D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L1841056-04E	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		NYTCL-8270(14)
L1841056-05A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L1841056-05B	Vial water preserved	B	NA		4.1	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1841056-05C	Vial water preserved	B	NA		4.1	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-05D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L1841056-05E	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		NYTCL-8270(14)
L1841056-06A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L1841056-06B	Vial water preserved	B	NA		4.1	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-06C	Vial water preserved	B	NA		4.1	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-06D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L1841056-06E	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		NYTCL-8270(14)
L1841056-07A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1841056-07B	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-07C	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-07D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1841056-07E	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14)
L1841056-08A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L1841056-08B	Vial water preserved	B	NA		4.1	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-08C	Vial water preserved	B	NA		4.1	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-08D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L1841056-08E	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		NYTCL-8270(14)
L1841056-09A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1841056-09B	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-09C	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-09D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1841056-09E	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14)
L1841056-10A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1841056-10B	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-10C	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-10D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1841056-10E	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14)

Project Name: 170500202

Lab Number: L1841056

Project Number: 170500202

Report Date: 10/15/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1841056-11A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1841056-11B	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-11C	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-11D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1841056-11E	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14)
L1841056-12A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1841056-12B	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-12C	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-12D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1841056-12E	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14)
L1841056-13A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1841056-13B	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-13C	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-13D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1841056-13E	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14)
L1841056-14A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1841056-14B	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-14C	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-14D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1841056-14E	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14)
L1841056-15A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1841056-15B	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-15C	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-15D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1841056-15E	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14)
L1841056-16A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1841056-16B	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)
L1841056-16C	Vial water preserved	A	NA		3.3	Y	Absent	11-OCT-18 13:46	NYTCL-8260HLW(14)

Project Name: 170500202

Project Number: 170500202

Serial_No:10151811:30

Lab Number: L1841056

Report Date: 10/15/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1841056-16D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1841056-16E	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14)

Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

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 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 exceedances 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: 170500202
Project Number: 170500202

Lab Number: L1841056
Report Date: 10/15/18

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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK 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	Date Rec'd in Lab	10/10/18	ALPHA Job #						
		of				1841056					
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			Deliverables	Billing Information					
Client Information		Project Name: 170500202			<input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other						
Client: CANLAN		Project Location: 300 W 122 nd ST			<input type="checkbox"/> Same as Client Info PO #						
Address: 360 WEST 31 st ST 8 th FLOOR		Project #			Regulatory Requirement						
Phone: 212-479-5400		Project Manager:			<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input checked="" type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other						
Fax:		Turn-Around Time			Disposal Site Information						
Email: GWYKCA@canlan.com		Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days: 3 DAYS			Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:						
These samples have been previously analyzed by Alpha <input type="checkbox"/>				ANALYSIS		Sample Filtration					
Other project specific requirements/comments:				VOC'S/UVOC'S		<input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)					
						Sample Specific Comments					
Please specify Metals or TAL.						Total Bottles					
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials						
		Date	Time								
41056 - 01	UST10-B1-17-18	10/10/18	12:00	504	DE						
	02		12:05		DE						
	03		12:10		DE						
	04		12:15		DE						
	05		12:20		DE						
	06		12:25		DE						
	07		12:30		DE						
	08		12:35		DE						
	09		12:40		DE						
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:		Date/Time		Received By:		Date/Time			
		DANIEL KIDA		10/10/18 1536		Kum Hoang AAC		10/10/18 1536			
		Kum Hoang AAC		10/10/18 1724		D. Santos AAC		10/10/18 1800			
		D. Santos AAC		10/10/18 2300				10/10/18 2300			

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	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		Date Rec'd in Lab	10/10/18	ALPHA Job #	L1841056													
		of	of	Project Information Project Name: 170.500202 Project Location: 300 W. 122 nd ST		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other EMAIL		Billing Information <input type="checkbox"/> Same as Client Info PO #													
Client Information Client: LANXAN Address: 300 WEST 122 nd ST Phone: 212-479-5400 Fax: Email: CWK@LANXAN.COM		Project # (Use Project name as Project #) <input checked="" type="checkbox"/>		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input checked="" type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:															
Turn-Around Time Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days: 3 DAYS																					
These samples have been previously analyzed by Alpha <input type="checkbox"/>				ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		Total Bottles													
Other project specific requirements/comments: Please specify Metals or TAL.				VOC'S SVOC'S																	
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials																
		Date	Time																		
41056 - 10	UST11-S-SW-18-19	10/10/18	1245	SOIL	DE																
11	UST11-W-SW-18-19		1250		DE																
12	UST12-B2-20-21		1255		DE																
13	UST12-B1-20-21		1300		DE																
14	UST12-N-SW-18-19		1305		DE																
15	UST12-E-SW-18-19		1310		DE																
16	UST12-W-SW-18-19		1315		DE																
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															
				Relinquished By: DANIEL GIOR KUM Hoog/DE D. Santos TAL		Date/Time: 10/10/18 15:30 10/10/18 17:20 10/10/18 2300		Received By: KUM Hoog/DE D. Santos TAL [Signature]		Date/Time: 10/10/18 15:30 10/10/18 1800 10/10/18 2300		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: 01-25 HC (rev. 30-Sept-2013)																					



ANALYTICAL REPORT

Lab Number:	L1843101
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	170500202
Project Number:	170500202
Report Date:	10/30/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 170500202
Project Number: 170500202

Lab Number: L1843101
Report Date: 10/30/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1843101-01	UST13_B1_14-15	SOIL	300 W. 122ND ST.	10/23/18 10:30	10/23/18
L1843101-02	UST13_B2_14-15	SOIL	300 W. 122ND ST.	10/23/18 10:35	10/23/18

Project Name: 170500202**Lab Number:** L1843101**Project Number:** 170500202**Report Date:** 10/30/18

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: 170500202
Project Number: 170500202

Lab Number: L1843101
Report Date: 10/30/18

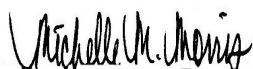
Case Narrative (continued)

Report Submission

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

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 10/30/18

ORGANICS

VOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1843101
Report Date: 10/30/18

SAMPLE RESULTS

Lab ID: L1843101-01
 Client ID: UST13_B1_14-15
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/23/18 10:30
 Date Received: 10/23/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/26/18 16:49
 Analyst: MKS
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.78	0.26	1
Toluene	ND		ug/kg	1.6	0.85	1
Ethylbenzene	ND		ug/kg	1.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	3.1	0.31	1
p/m-Xylene	ND		ug/kg	3.1	0.87	1
o-Xylene	ND		ug/kg	1.6	0.45	1
Xylenes, Total	ND		ug/kg	1.6	0.45	1
n-Butylbenzene	ND		ug/kg	1.6	0.26	1
sec-Butylbenzene	ND		ug/kg	1.6	0.23	1
tert-Butylbenzene	ND		ug/kg	3.1	0.18	1
Isopropylbenzene	ND		ug/kg	1.6	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.17	1
Naphthalene	ND		ug/kg	6.2	1.0	1
n-Propylbenzene	ND		ug/kg	1.6	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	0.30	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	96		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1843101
Report Date: 10/30/18

SAMPLE RESULTS

Lab ID: L1843101-02
 Client ID: UST13_B2_14-15
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/23/18 10:35
 Date Received: 10/23/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 10/26/18 17:17
 Analyst: MKS
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	1.0	J	ug/kg	4.4	0.72	1
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,3,5-Trimethylbenzene	0.36	J	ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	0.74	J	ug/kg	2.2	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	96		70-130

Project Name: 170500202

Lab Number: L1843101

Project Number: 170500202

Report Date: 10/30/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 10/26/18 09:24
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1172878-5					
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1843101

Project Number: 170500202

Report Date: 10/30/18

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1172878-3 WG1172878-4								
Benzene	111		108		70-130	3		30
Toluene	105		101		70-130	4		30
Ethylbenzene	103		101		70-130	2		30
Methyl tert butyl ether	90		90		66-130	0		30
p/m-Xylene	98		96		70-130	2		30
o-Xylene	91		89		70-130	2		30
n-Butylbenzene	113		109		70-130	4		30
sec-Butylbenzene	103		102		70-130	1		30
tert-Butylbenzene	96		94		70-130	2		30
Isopropylbenzene	101		98		70-130	3		30
p-Isopropyltoluene	99		96		70-130	3		30
Naphthalene	96		97		70-130	1		30
n-Propylbenzene	108		105		70-130	3		30
1,3,5-Trimethylbenzene	101		99		70-130	2		30
1,2,4-Trimethylbenzene	101		99		70-130	2		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	99		99		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	103		106		70-130
Dibromofluoromethane	95		95		70-130

SEMIVOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1843101
Report Date: 10/30/18

SAMPLE RESULTS

Lab ID: L1843101-01
 Client ID: UST13_B1_14-15
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/23/18 10:30
 Date Received: 10/23/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/26/18 08:26
 Analyst: IM
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 10/24/18 11:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	23	J	ug/kg	170	22.	1
Fluoranthene	130		ug/kg	120	24.	1
Naphthalene	ND		ug/kg	210	26.	1
Benzo(a)anthracene	170		ug/kg	120	24.	1
Benzo(a)pyrene	190		ug/kg	170	51.	1
Benzo(b)fluoranthene	350		ug/kg	120	35.	1
Benzo(k)fluoranthene	110	J	ug/kg	120	34.	1
Chrysene	140		ug/kg	120	22.	1
Acenaphthylene	150	J	ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	41.	1
Benzo(ghi)perylene	150	J	ug/kg	170	25.	1
Fluorene	32	J	ug/kg	210	20.	1
Phenanthrene	62	J	ug/kg	120	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	140	J	ug/kg	170	29.	1
Pyrene	120		ug/kg	120	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	68		30-120
4-Terphenyl-d14	58		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1843101
Report Date: 10/30/18

SAMPLE RESULTS

Lab ID: L1843101-02
 Client ID: UST13_B2_14-15
 Sample Location: 300 W. 122ND ST.

Date Collected: 10/23/18 10:35
 Date Received: 10/23/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 10/26/18 08:50
 Analyst: IM
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 10/24/18 11:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
Fluoranthene	74	J	ug/kg	110	21.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	60	J	ug/kg	110	20.	1
Benzo(a)pyrene	120	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	160		ug/kg	110	30.	1
Benzo(k)fluoranthene	41	J	ug/kg	110	29.	1
Chrysene	57	J	ug/kg	110	19.	1
Acenaphthylene	65	J	ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	62	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	42	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	60	J	ug/kg	140	25.	1
Pyrene	70	J	ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	71		30-120
4-Terphenyl-d14	59		18-120

Project Name: 170500202

Lab Number: L1843101

Project Number: 170500202

Report Date: 10/30/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 10/29/18 09:40
 Analyst: IM

Extraction Method: EPA 3546
 Extraction Date: 10/24/18 11:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1171734-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	93		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1843101

Project Number: 170500202

Report Date: 10/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1171734-2 WG1171734-3								
Acenaphthene	78		85		31-137	9		50
Fluoranthene	81		88		40-140	8		50
Naphthalene	74		81		40-140	9		50
Benzo(a)anthracene	77		83		40-140	8		50
Benzo(a)pyrene	79		84		40-140	6		50
Benzo(b)fluoranthene	74		80		40-140	8		50
Benzo(k)fluoranthene	80		86		40-140	7		50
Chrysene	78		85		40-140	9		50
Acenaphthylene	80		86		40-140	7		50
Anthracene	81		88		40-140	8		50
Benzo(ghi)perylene	79		85		40-140	7		50
Fluorene	79		84		40-140	6		50
Phenanthrene	79		86		40-140	8		50
Dibenzo(a,h)anthracene	79		86		40-140	8		50
Indeno(1,2,3-cd)pyrene	77		83		40-140	8		50
Pyrene	82		88		35-142	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1843101
Report Date: 10/30/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1171734-2 WG1171734-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	76		84		25-120
Phenol-d6	84		93		10-120
Nitrobenzene-d5	84		94		23-120
2-Fluorobiphenyl	81		88		30-120
2,4,6-Tribromophenol	84		90		10-136
4-Terphenyl-d14	84		91		18-120

INORGANICS & MISCELLANEOUS

Project Name: 170500202

Lab Number: L1843101

Project Number: 170500202

Report Date: 10/30/18

SAMPLE RESULTS

Lab ID: L1843101-01

Date Collected: 10/23/18 10:30

Client ID: UST13_B1_14-15

Date Received: 10/23/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.2		%	0.100	NA	1	-	10/24/18 10:10	121,2540G	RI



Project Name: 170500202

Lab Number: L1843101

Project Number: 170500202

Report Date: 10/30/18

SAMPLE RESULTS

Lab ID: L1843101-02

Date Collected: 10/23/18 10:35

Client ID: UST13_B2_14-15

Date Received: 10/23/18

Sample Location: 300 W. 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	10/24/18 10:10	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1843101

Report Date: 10/30/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1171670-1 QC Sample: L1843118-01 Client ID: DUP Sample						
Solids, Total	84.6	85.3	%	1		20

Project Name: 170500202**Lab Number:** L1843101**Project Number:** 170500202**Report Date:** 10/30/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1843101-01A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L1843101-01B	Vial water preserved	A	NA		3.2	Y	Absent	24-OCT-18 17:35	NYTCL-8260HLW(14)
L1843101-01C	Vial water preserved	A	NA		3.2	Y	Absent	24-OCT-18 17:35	NYTCL-8260HLW(14)
L1843101-01D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1843101-01E	Glass 500ml/16oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)
L1843101-02A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L1843101-02B	Vial water preserved	A	NA		3.2	Y	Absent	24-OCT-18 17:35	NYTCL-8260HLW(14)
L1843101-02C	Vial water preserved	A	NA		3.2	Y	Absent	24-OCT-18 17:35	NYTCL-8260HLW(14)
L1843101-02D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1843101-02E	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)
L1843101-02F	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)
L1843101-02G	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)

Project Name: 170500202
Project Number: 170500202

Lab Number: L1843101
Report Date: 10/30/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 170500202
Project Number: 170500202

Lab Number: L1843101
Report Date: 10/30/18

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 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 exceedances 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: 170500202
Project Number: 170500202

Lab Number: L1843101
Report Date: 10/30/18

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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY 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	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 _____ of _____		Date Rec'd in Lab: 10/23/18		ALPHA Job # L1843101						
	Project Information Project Name: 170500202 Project Location: 300 W 127th ST Project # _____ (Use Project name as Project #) <input checked="" type="checkbox"/>			Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other <input checked="" type="checkbox"/> EMAIL		Billing Information <input type="checkbox"/> Same as Client Info PO # _____							
	Client Information Client: LANGAN Address: 360 W. 31st ST 5th FLOOR Phone: 212-479-5400 Fax: _____ Email: GREG WYKA			Project Manager: GREG WYKA ALPHAQuote #: _____ Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: _____ Rush (only if pre approved) <input type="checkbox"/> # of Days: _____		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input checked="" type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other: _____					
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: _____ Please specify Metals or TAL. _____			ANALYSIS (Vertical column headers: CHL, NH4, NO3, COC, VOCs, SVOCs)		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments: _____								
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		(Vertical column headers: CHL, NH4, NO3, COC, VOCs, SVOCs)		(Vertical column headers: CHL, NH4, NO3, COC, VOCs, SVOCs)	
43101 -01		VST13-B1-14-Y5		10/23 1030		SOLI DE		DE		CHL		CHL	
-02		VST13-B2-14-15		10/23 1035		SOLI DE		DE		NH4		NH4	
Preservative Code: A = None B = HCl C = HNO3 D = H2SO4 E = NaOH F = MeOH G = NaHSO4 H = Na2S2O3 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.)		Total Bottles	
Relinquished By:			Date/Time		Received By:			Date/Time		_____			
DANIEL EIDA			10/23/18 1200		Gregory Wiegman			10/23/18 1043		_____			
Gregory Wiegman			10/23/18 1200		D. Santos AAL			10/23/18 1830		_____			
D. Santos AAL			10/23/18 2250		_____			10/23/18 2315		_____			



ANALYTICAL REPORT

Lab Number:	L1850360
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 W. 122ND ST.
Project Number:	170500202
Report Date:	12/14/18

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1850360-01	UST14_B1_15.5-16	SOIL	NY, NY	12/07/18 12:55	12/07/18
L1850360-02	UST14_B2_15.5-16	SOIL	NY, NY	12/07/18 13:00	12/07/18
L1850360-03	UST15_B1_15.5-16	SOIL	NY, NY	12/07/18 12:40	12/07/18
L1850360-04	UST15_B2_15.5-16	SOIL	NY, NY	12/07/18 12:45	12/07/18
L1850360-05	UST16_B1_15.5-16	SOIL	NY, NY	12/07/18 12:25	12/07/18
L1850360-06	UST16_B2_15.5-16	SOIL	NY, NY	12/07/18 12:30	12/07/18
L1850360-07	UST17_B1_15.5-16	SOIL	NY, NY	12/07/18 12:00	12/07/18
L1850360-08	UST17_B2_15.5-16	SOIL	NY, NY	12/07/18 12:05	12/07/18
L1850360-09	UST_DUP01_120718	SOIL	NY, NY	12/07/18 00:00	12/07/18
L1850360-10	UST_DUP02_120718	SOIL	NY, NY	12/07/18 00:00	12/07/18
L1850360-11	EP_FB01_120718	WATER	NY, NY	12/07/18 14:20	12/07/18
L1850360-12	EP_TB01_120718	WATER	NY, NY	12/07/18 00:00	12/07/18

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

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: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

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

L1850360-12 : A sample identified as "EP_TB01_120718" was received but not listed on the Chain of Custody. At the client's request, this sample was not analyzed.

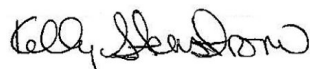
Volatile Organics

L1850360-04: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (45%) was outside the acceptance criteria; however, re-analysis achieved similar results: 1,4-dichlorobenzene-d4 (37%) and a high surrogate recovery for 4-bromofluorobenzene (142%). The results of both analyses are reported.

L1850360-09: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (47%) and the surrogate recovery for 4-bromofluorobenzene (135%) were outside the acceptance criteria; however, re-analysis achieved similar results: 1,4-dichlorobenzene-d4 (46%). The results of both analyses are reported.

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: 12/14/18

ORGANICS

VOLATILES

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-01
 Client ID: UST14_B1_15.5-16
 Sample Location: NY, NY

Date Collected: 12/07/18 12:55
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/12/18 23:14
 Analyst: NLK
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	25	8.3	1
Toluene	140		ug/kg	50	27.	1
Ethylbenzene	110		ug/kg	50	7.1	1
Methyl tert butyl ether	ND		ug/kg	100	10.	1
p/m-Xylene	600		ug/kg	100	28.	1
o-Xylene	300		ug/kg	50	15.	1
Xylenes, Total	900		ug/kg	50	15.	1
n-Butylbenzene	23	J	ug/kg	50	8.4	1
sec-Butylbenzene	10	J	ug/kg	50	7.3	1
tert-Butylbenzene	ND		ug/kg	100	5.9	1
Isopropylbenzene	18	J	ug/kg	50	5.5	1
p-Isopropyltoluene	ND		ug/kg	50	5.5	1
Naphthalene	58	J	ug/kg	200	33.	1
n-Propylbenzene	79		ug/kg	50	8.6	1
1,3,5-Trimethylbenzene	160		ug/kg	100	9.7	1
1,2,4-Trimethylbenzene	560		ug/kg	100	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	102		70-130

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-02
 Client ID: UST14_B2_15.5-16
 Sample Location: NY, NY

Date Collected: 12/07/18 13:00
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/13/18 00:30
 Analyst: MV
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	2.6		ug/kg	0.41	0.14	1
Toluene	10		ug/kg	0.83	0.45	1
Ethylbenzene	0.78	J	ug/kg	0.83	0.12	1
Methyl tert butyl ether	0.89	J	ug/kg	1.6	0.17	1
p/m-Xylene	12		ug/kg	1.6	0.46	1
o-Xylene	5.8		ug/kg	0.83	0.24	1
Xylenes, Total	18		ug/kg	0.83	0.24	1
n-Butylbenzene	ND		ug/kg	0.83	0.14	1
sec-Butylbenzene	ND		ug/kg	0.83	0.12	1
tert-Butylbenzene	ND		ug/kg	1.6	0.10	1
Isopropylbenzene	ND		ug/kg	0.83	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.83	0.09	1
Naphthalene	ND		ug/kg	3.3	0.54	1
n-Propylbenzene	ND		ug/kg	0.83	0.14	1
1,3,5-Trimethylbenzene	0.50	J	ug/kg	1.6	0.16	1
1,2,4-Trimethylbenzene	1.3	J	ug/kg	1.6	0.28	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	99		70-130

Project Name: 300 W. 122ND ST.**Lab Number:** L1850360**Project Number:** 170500202**Report Date:** 12/14/18**SAMPLE RESULTS**

Lab ID: L1850360-03
 Client ID: UST15_B1_15.5-16
 Sample Location: NY, NY

Date Collected: 12/07/18 12:40
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/13/18 00:58
 Analyst: MV
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	101		70-130

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-04
Client ID: UST15_B2_15.5-16
Sample Location: NY, NY

Date Collected: 12/07/18 12:45
Date Received: 12/07/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/13/18 01:25
Analyst: MV
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	1.3		ug/kg	0.97	0.53	1
Ethylbenzene	0.32	J	ug/kg	0.97	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.20	1
p/m-Xylene	1.4	J	ug/kg	1.9	0.54	1
o-Xylene	0.47	J	ug/kg	0.97	0.28	1
Xylenes, Total	1.9	J	ug/kg	0.97	0.28	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
Isopropylbenzene	ND		ug/kg	0.97	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.11	1
Naphthalene	ND		ug/kg	3.9	0.63	1
n-Propylbenzene	ND		ug/kg	0.97	0.17	1
1,3,5-Trimethylbenzene	0.20	J	ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	0.50	J	ug/kg	1.9	0.32	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	126		70-130
Dibromofluoromethane	102		70-130

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-04 R

Date Collected: 12/07/18 12:45

Client ID: UST15_B2_15.5-16

Date Received: 12/07/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 12/13/18 12:40

Analyst: JC

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	4.3		ug/kg	1.0	0.57	1
Ethylbenzene	2.3		ug/kg	1.0	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	12		ug/kg	2.1	0.58	1
o-Xylene	5.1		ug/kg	1.0	0.30	1
Xylenes, Total	17		ug/kg	1.0	0.30	1
n-Butylbenzene	0.45	J	ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
Isopropylbenzene	0.48	J	ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	1.2	J	ug/kg	4.2	0.68	1
n-Propylbenzene	2.1		ug/kg	1.0	0.18	1
1,3,5-Trimethylbenzene	4.2		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	14		ug/kg	2.1	0.35	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	142	Q	70-130
Dibromofluoromethane	96		70-130

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-05
 Client ID: UST16_B1_15.5-16
 Sample Location: NY, NY

Date Collected: 12/07/18 12:25
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/13/18 01:52
 Analyst: MV
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	0.60		ug/kg	0.51	0.17	1
Toluene	12		ug/kg	1.0	0.56	1
Ethylbenzene	3.6		ug/kg	1.0	0.14	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.21	1
p/m-Xylene	29		ug/kg	2.0	0.57	1
o-Xylene	13		ug/kg	1.0	0.30	1
Xylenes, Total	42		ug/kg	1.0	0.30	1
n-Butylbenzene	0.56	J	ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
Isopropylbenzene	0.61	J	ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	1.7	J	ug/kg	4.1	0.67	1
n-Propylbenzene	2.3		ug/kg	1.0	0.18	1
1,3,5-Trimethylbenzene	6.2		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	22		ug/kg	2.0	0.34	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	99		70-130

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-06
 Client ID: UST16_B2_15.5-16
 Sample Location: NY, NY

Date Collected: 12/07/18 12:30
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/13/18 02:20
 Analyst: MV
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	0.32	J	ug/kg	0.50	0.17	1
Toluene	3.9		ug/kg	1.0	0.55	1
Ethylbenzene	0.96	J	ug/kg	1.0	0.14	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	8.5		ug/kg	2.0	0.56	1
o-Xylene	3.7		ug/kg	1.0	0.29	1
Xylenes, Total	12		ug/kg	1.0	0.29	1
n-Butylbenzene	0.21	J	ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
Isopropylbenzene	0.15	J	ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	0.91	J	ug/kg	4.0	0.66	1
n-Propylbenzene	0.73	J	ug/kg	1.0	0.17	1
1,3,5-Trimethylbenzene	2.2		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	8.1		ug/kg	2.0	0.34	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	99		70-130

Project Name: 300 W. 122ND ST.**Lab Number:** L1850360**Project Number:** 170500202**Report Date:** 12/14/18**SAMPLE RESULTS**

Lab ID: L1850360-07
 Client ID: UST17_B1_15.5-16
 Sample Location: NY, NY

Date Collected: 12/07/18 12:00
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/13/18 13:07
 Analyst: JC
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.41	0.14	1
Toluene	ND		ug/kg	0.82	0.44	1
Ethylbenzene	ND		ug/kg	0.82	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.16	1
p/m-Xylene	ND		ug/kg	1.6	0.46	1
o-Xylene	ND		ug/kg	0.82	0.24	1
Xylenes, Total	ND		ug/kg	0.82	0.24	1
n-Butylbenzene	ND		ug/kg	0.82	0.14	1
sec-Butylbenzene	ND		ug/kg	0.82	0.12	1
tert-Butylbenzene	ND		ug/kg	1.6	0.10	1
Isopropylbenzene	ND		ug/kg	0.82	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.82	0.09	1
Naphthalene	ND		ug/kg	3.3	0.53	1
n-Propylbenzene	ND		ug/kg	0.82	0.14	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	0.27	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	127		70-130
Dibromofluoromethane	98		70-130

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-08
 Client ID: UST17_B2_15.5-16
 Sample Location: NY, NY

Date Collected: 12/07/18 12:05
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/13/18 03:15
 Analyst: MV
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.72	0.24	1
Toluene	1.5		ug/kg	1.4	0.78	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.9	0.29	1
p/m-Xylene	1.7	J	ug/kg	2.9	0.80	1
o-Xylene	0.70	J	ug/kg	1.4	0.42	1
Xylenes, Total	2.4	J	ug/kg	1.4	0.42	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.21	1
tert-Butylbenzene	ND		ug/kg	2.9	0.17	1
Isopropylbenzene	ND		ug/kg	1.4	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.16	1
Naphthalene	ND		ug/kg	5.7	0.93	1
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,3,5-Trimethylbenzene	0.37	J	ug/kg	2.9	0.28	1
1,2,4-Trimethylbenzene	0.82	J	ug/kg	2.9	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	127		70-130
Dibromofluoromethane	102		70-130

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-09
 Client ID: UST_DUP01_120718
 Sample Location: NY, NY

Date Collected: 12/07/18 00:00
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/13/18 03:42
 Analyst: MV
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.45	0.15	1
Toluene	ND		ug/kg	0.91	0.49	1
Ethylbenzene	ND		ug/kg	0.91	0.13	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.91	0.26	1
Xylenes, Total	ND		ug/kg	0.91	0.26	1
n-Butylbenzene	ND		ug/kg	0.91	0.15	1
sec-Butylbenzene	ND		ug/kg	0.91	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
Isopropylbenzene	ND		ug/kg	0.91	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.91	0.10	1
Naphthalene	ND		ug/kg	3.6	0.59	1
n-Propylbenzene	ND		ug/kg	0.91	0.16	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.30	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	135	Q	70-130
Dibromofluoromethane	102		70-130

Project Name: 300 W. 122ND ST.**Lab Number:** L1850360**Project Number:** 170500202**Report Date:** 12/14/18**SAMPLE RESULTS**

Lab ID: L1850360-09 R

Date Collected: 12/07/18 00:00

Client ID: UST_DUP01_120718

Date Received: 12/07/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 12/13/18 13:35

Analyst: JC

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.42	0.14	1
Toluene	ND		ug/kg	0.85	0.46	1
Ethylbenzene	ND		ug/kg	0.85	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.47	1
o-Xylene	ND		ug/kg	0.85	0.25	1
Xylenes, Total	ND		ug/kg	0.85	0.25	1
n-Butylbenzene	ND		ug/kg	0.85	0.14	1
sec-Butylbenzene	ND		ug/kg	0.85	0.12	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
Isopropylbenzene	ND		ug/kg	0.85	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.85	0.09	1
Naphthalene	ND		ug/kg	3.4	0.55	1
n-Propylbenzene	ND		ug/kg	0.85	0.14	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.28	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	127		70-130
Dibromofluoromethane	100		70-130

Project Name: 300 W. 122ND ST.**Lab Number:** L1850360**Project Number:** 170500202**Report Date:** 12/14/18**SAMPLE RESULTS**

Lab ID: L1850360-10
 Client ID: UST_DUP02_120718
 Sample Location: NY, NY

Date Collected: 12/07/18 00:00
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/12/18 23:39
 Analyst: NLK
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	28	9.2	1
Toluene	110		ug/kg	55	30.	1
Ethylbenzene	110		ug/kg	55	7.8	1
Methyl tert butyl ether	ND		ug/kg	110	11.	1
p/m-Xylene	630		ug/kg	110	31.	1
o-Xylene	290		ug/kg	55	16.	1
Xylenes, Total	920		ug/kg	55	16.	1
n-Butylbenzene	46	J	ug/kg	55	9.2	1
sec-Butylbenzene	19	J	ug/kg	55	8.1	1
tert-Butylbenzene	ND		ug/kg	110	6.5	1
Isopropylbenzene	25	J	ug/kg	55	6.0	1
p-Isopropyltoluene	8.8	J	ug/kg	55	6.0	1
Naphthalene	160	J	ug/kg	220	36.	1
n-Propylbenzene	110		ug/kg	55	9.5	1
1,3,5-Trimethylbenzene	240		ug/kg	110	11.	1
1,2,4-Trimethylbenzene	830		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	97		70-130

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-11
 Client ID: EP_FB01_120718
 Sample Location: NY, NY

Date Collected: 12/07/18 14:20
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 12/12/18 18:08
 Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-11
 Client ID: EP_FB01_120718
 Sample Location: NY, NY

Date Collected: 12/07/18 14:20
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-11
 Client ID: EP_FB01_120718
 Sample Location: NY, NY

Date Collected: 12/07/18 14:20
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/12/18 09:52
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1188519-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/12/18 09:52
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1188519-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/12/18 09:52
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1188519-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 12/12/18 20:22
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-06,08-09 Batch: WG1188818-5					
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 12/12/18 20:12
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,10 Batch: WG1188899-5					
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
n-Propylbenzene	ND		ug/kg	50	8.6
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 12/13/18 08:31
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04,07,09 Batch: WG1189029-5					
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1188519-3 WG1188519-4								
Methylene chloride	100		98		70-130	2		20
1,1-Dichloroethane	98		98		70-130	0		20
Chloroform	98		96		70-130	2		20
Carbon tetrachloride	83		82		63-132	1		20
1,2-Dichloropropane	100		99		70-130	1		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	87		88		70-130	1		20
Chlorobenzene	98		97		75-130	1		20
Trichlorofluoromethane	84		82		62-150	2		20
1,2-Dichloroethane	99		99		70-130	0		20
1,1,1-Trichloroethane	88		86		67-130	2		20
Bromodichloromethane	98		98		67-130	0		20
trans-1,3-Dichloropropene	96		97		70-130	1		20
cis-1,3-Dichloropropene	96		95		70-130	1		20
1,1-Dichloropropene	88		88		70-130	0		20
Bromoform	97		98		54-136	1		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	97		96		70-130	1		20
Toluene	96		96		70-130	0		20
Ethylbenzene	94		94		70-130	0		20
Chloromethane	92		91		64-130	1		20
Bromomethane	53		48		39-139	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1188519-3 WG1188519-4								
Vinyl chloride	93		92		55-140	1		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	90		88		61-145	2		20
trans-1,2-Dichloroethene	96		95		70-130	1		20
Trichloroethene	92		92		70-130	0		20
1,2-Dichlorobenzene	95		96		70-130	1		20
1,3-Dichlorobenzene	94		94		70-130	0		20
1,4-Dichlorobenzene	93		94		70-130	1		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	100		97		70-130	3		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	100		110		64-130	10		20
Acrylonitrile	90		98		70-130	9		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	120		120		58-148	0		20
Carbon disulfide	91		90		51-130	1		20
2-Butanone	73		73		63-138	0		20
Vinyl acetate	110		110		70-130	0		20
4-Methyl-2-pentanone	90		92		59-130	2		20
2-Hexanone	92		97		57-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1188519-3 WG1188519-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	91		90		63-133	1		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	99		100		70-130	1		20
1,1,1,2-Tetrachloroethane	97		97		64-130	0		20
Bromobenzene	96		96		70-130	0		20
n-Butylbenzene	90		90		53-136	0		20
sec-Butylbenzene	88		88		70-130	0		20
tert-Butylbenzene	89		90		70-130	1		20
o-Chlorotoluene	88		87		70-130	1		20
p-Chlorotoluene	94		94		70-130	0		20
1,2-Dibromo-3-chloropropane	96		96		41-144	0		20
Hexachlorobutadiene	84		85		63-130	1		20
Isopropylbenzene	90		90		70-130	0		20
p-Isopropyltoluene	89		91		70-130	2		20
Naphthalene	99		100		70-130	1		20
n-Propylbenzene	91		91		69-130	0		20
1,2,3-Trichlorobenzene	98		100		70-130	2		20
1,2,4-Trichlorobenzene	95		98		70-130	3		20
1,3,5-Trimethylbenzene	92		93		64-130	1		20
1,2,4-Trimethylbenzene	95		95		70-130	0		20
1,4-Dioxane	144		130		56-162	10		20
p-Diethylbenzene	89		90		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1850360

Report Date: 12/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1188519-3 WG1188519-4								
p-Ethyltoluene	91		92		70-130	1		20
1,2,4,5-Tetramethylbenzene	90		94		70-130	4		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		106		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	100		100		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-06,08-09 Batch: WG1188818-3 WG1188818-4									
Benzene	110		105		70-130		5		30
Toluene	106		103		70-130		3		30
Ethylbenzene	109		105		70-130		4		30
Methyl tert butyl ether	108		108		66-130		0		30
p/m-Xylene	110		107		70-130		3		30
o-Xylene	112		109		70-130		3		30
n-Butylbenzene	110		106		70-130		4		30
sec-Butylbenzene	110		106		70-130		4		30
tert-Butylbenzene	111		107		70-130		4		30
Isopropylbenzene	112		107		70-130		5		30
p-Isopropyltoluene	112		109		70-130		3		30
Naphthalene	99		103		70-130		4		30
n-Propylbenzene	109		104		70-130		5		30
1,3,5-Trimethylbenzene	108		104		70-130		4		30
1,2,4-Trimethylbenzene	111		107		70-130		4		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	95		95		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	104		101		70-130
Dibromofluoromethane	99		100		70-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,10 Batch: WG1188899-3 WG1188899-4								
Benzene	96		95		70-130	1		30
Toluene	93		90		70-130	3		30
Ethylbenzene	94		93		70-130	1		30
Methyl tert butyl ether	93		100		66-130	7		30
p/m-Xylene	93		91		70-130	2		30
o-Xylene	94		93		70-130	1		30
n-Butylbenzene	96		93		70-130	3		30
sec-Butylbenzene	94		92		70-130	2		30
tert-Butylbenzene	92		90		70-130	2		30
Isopropylbenzene	95		91		70-130	4		30
p-Isopropyltoluene	93		90		70-130	3		30
Naphthalene	94		93		70-130	1		30
n-Propylbenzene	95		91		70-130	4		30
1,3,5-Trimethylbenzene	94		91		70-130	3		30
1,2,4-Trimethylbenzene	95		92		70-130	3		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	106		107		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	107		106		70-130
Dibromofluoromethane	98		101		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04,07,09 Batch: WG1189029-3 WG1189029-4									
Benzene	102		101		70-130	1		30	
Toluene	99		98		70-130	1		30	
Ethylbenzene	101		101		70-130	0		30	
Methyl tert butyl ether	107		108		66-130	1		30	
p/m-Xylene	102		103		70-130	1		30	
o-Xylene	104		105		70-130	1		30	
n-Butylbenzene	100		97		70-130	3		30	
sec-Butylbenzene	100		98		70-130	2		30	
tert-Butylbenzene	102		99		70-130	3		30	
Isopropylbenzene	104		100		70-130	4		30	
p-Isopropyltoluene	103		101		70-130	2		30	
Naphthalene	98		100		70-130	2		30	
n-Propylbenzene	99		96		70-130	3		30	
1,3,5-Trimethylbenzene	100		97		70-130	3		30	
1,2,4-Trimethylbenzene	103		100		70-130	3		30	

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	93		94		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	104		101		70-130
Dibromofluoromethane	97		97		70-130



SEMIVOLATILES

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-01
 Client ID: UST14_B1_15.5-16
 Sample Location: NY, NY

Date Collected: 12/07/18 12:55
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/13/18 19:59
 Analyst: IM
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 12/10/18 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Fluoranthene	110		ug/kg	110	22.	1
Naphthalene	62	J	ug/kg	190	23.	1
Benzo(a)anthracene	76	J	ug/kg	110	21.	1
Benzo(a)pyrene	70	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	84	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	33	J	ug/kg	110	30.	1
Chrysene	68	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	54	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	42	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	50	J	ug/kg	150	26.	1
Pyrene	100	J	ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	62		18-120

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-02
 Client ID: UST14_B2_15.5-16
 Sample Location: NY, NY

Date Collected: 12/07/18 13:00
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/13/18 20:25
 Analyst: IM
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 12/10/18 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Fluoranthene	1200		ug/kg	110	21.	1
Naphthalene	82	J	ug/kg	180	22.	1
Benzo(a)anthracene	680		ug/kg	110	21.	1
Benzo(a)pyrene	580		ug/kg	150	45.	1
Benzo(b)fluoranthene	780		ug/kg	110	31.	1
Benzo(k)fluoranthene	250		ug/kg	110	30.	1
Chrysene	630		ug/kg	110	19.	1
Acenaphthylene	190		ug/kg	150	28.	1
Anthracene	170		ug/kg	110	36.	1
Benzo(ghi)perylene	330		ug/kg	150	22.	1
Fluorene	41	J	ug/kg	180	18.	1
Phenanthrene	840		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	97	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	380		ug/kg	150	26.	1
Pyrene	900		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	55		18-120

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-03
 Client ID: UST15_B1_15.5-16
 Sample Location: NY, NY

Date Collected: 12/07/18 12:40
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/13/18 18:39
 Analyst: IM
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 12/10/18 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Fluoranthene	ND		ug/kg	100	20.	1
Naphthalene	ND		ug/kg	170	21.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	65		18-120

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-04
 Client ID: UST15_B2_15.5-16
 Sample Location: NY, NY

Date Collected: 12/07/18 12:45
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/13/18 20:51
 Analyst: IM
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 12/10/18 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Fluoranthene	ND		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	22	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	69		30-120
4-Terphenyl-d14	58		18-120

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-05
 Client ID: UST16_B1_15.5-16
 Sample Location: NY, NY

Date Collected: 12/07/18 12:25
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/13/18 21:18
 Analyst: IM
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 12/10/18 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Fluoranthene	360		ug/kg	110	20.	1
Naphthalene	24	J	ug/kg	180	22.	1
Benzo(a)anthracene	250		ug/kg	110	20.	1
Benzo(a)pyrene	210		ug/kg	140	43.	1
Benzo(b)fluoranthene	290		ug/kg	110	30.	1
Benzo(k)fluoranthene	92	J	ug/kg	110	28.	1
Chrysene	220		ug/kg	110	18.	1
Acenaphthylene	57	J	ug/kg	140	27.	1
Anthracene	50	J	ug/kg	110	34.	1
Benzo(ghi)perylene	140		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	120		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	37	J	ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	150		ug/kg	140	25.	1
Pyrene	340		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	81		30-120
4-Terphenyl-d14	64		18-120

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-06
 Client ID: UST16_B2_15.5-16
 Sample Location: NY, NY

Date Collected: 12/07/18 12:30
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/13/18 21:44
 Analyst: IM
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 12/10/18 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
Fluoranthene	23	J	ug/kg	110	21.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	27	J	ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	72		30-120
4-Terphenyl-d14	60		18-120

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-07
 Client ID: UST17_B1_15.5-16
 Sample Location: NY, NY

Date Collected: 12/07/18 12:00
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/13/18 22:11
 Analyst: IM
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 12/10/18 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
Fluoranthene	22	J	ug/kg	110	21.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	36	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	20	J	ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	79		30-120
4-Terphenyl-d14	62		18-120

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-08
 Client ID: UST17_B2_15.5-16
 Sample Location: NY, NY

Date Collected: 12/07/18 12:05
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/13/18 22:37
 Analyst: IM
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 12/10/18 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Fluoranthene	460		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	180	23.	1
Benzo(a)anthracene	210		ug/kg	110	21.	1
Benzo(a)pyrene	180		ug/kg	150	45.	1
Benzo(b)fluoranthene	260		ug/kg	110	31.	1
Benzo(k)fluoranthene	73	J	ug/kg	110	30.	1
Chrysene	200		ug/kg	110	19.	1
Acenaphthylene	29	J	ug/kg	150	29.	1
Anthracene	69	J	ug/kg	110	36.	1
Benzo(ghi)perylene	130	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	240		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	28	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	120	J	ug/kg	150	26.	1
Pyrene	380		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	63		18-120

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-09
 Client ID: UST_DUP01_120718
 Sample Location: NY, NY

Date Collected: 12/07/18 00:00
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/13/18 23:04
 Analyst: IM
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 12/10/18 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Fluoranthene	ND		ug/kg	110	20.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	40	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	70		30-120
4-Terphenyl-d14	59		18-120

Project Name: 300 W. 122ND ST.**Lab Number:** L1850360**Project Number:** 170500202**Report Date:** 12/14/18**SAMPLE RESULTS**

Lab ID: L1850360-10
 Client ID: UST_DUP02_120718
 Sample Location: NY, NY

Date Collected: 12/07/18 00:00
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/13/18 23:30
 Analyst: IM
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 12/10/18 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Fluoranthene	240		ug/kg	120	22.	1
Naphthalene	110	J	ug/kg	190	24.	1
Benzo(a)anthracene	160		ug/kg	120	22.	1
Benzo(a)pyrene	140	J	ug/kg	150	47.	1
Benzo(b)fluoranthene	180		ug/kg	120	32.	1
Benzo(k)fluoranthene	52	J	ug/kg	120	31.	1
Chrysene	130		ug/kg	120	20.	1
Acenaphthylene	40	J	ug/kg	150	30.	1
Anthracene	44	J	ug/kg	120	38.	1
Benzo(ghi)perylene	110	J	ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	110	J	ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	100	J	ug/kg	150	27.	1
Pyrene	240		ug/kg	120	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	79		30-120
4-Terphenyl-d14	61		18-120

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-11
 Client ID: EP_FB01_120718
 Sample Location: NY, NY

Date Collected: 12/07/18 14:20
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 12/11/18 22:26
 Analyst: HL

Extraction Method: EPA 3510C
 Extraction Date: 12/10/18 01:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.44	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Hexachlorobenzene	ND		ug/l	2.0	0.46	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Fluoranthene	ND		ug/l	2.0	0.26	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Hexachloroethane	ND		ug/l	2.0	0.58	1
Isophorone	ND		ug/l	5.0	1.2	1
Naphthalene	ND		ug/l	2.0	0.46	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-11
 Client ID: EP_FB01_120718
 Sample Location: NY, NY

Date Collected: 12/07/18 14:20
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Benzo(a)pyrene	ND		ug/l	2.0	0.41	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37	1
Chrysene	ND		ug/l	2.0	0.34	1
Acenaphthylene	ND		ug/l	2.0	0.46	1
Anthracene	ND		ug/l	2.0	0.33	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.30	1
Fluorene	ND		ug/l	2.0	0.41	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40	1
Pyrene	ND		ug/l	2.0	0.28	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Pentachlorophenol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1

Project Name: 300 W. 122ND ST.**Lab Number:** L1850360**Project Number:** 170500202**Report Date:** 12/14/18**SAMPLE RESULTS**

Lab ID: L1850360-11
 Client ID: EP_FB01_120718
 Sample Location: NY, NY

Date Collected: 12/07/18 14:20
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	59		10-120
4-Terphenyl-d14	55		41-149

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/11/18 01:34
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 12/09/18 15:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1187304-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/11/18 01:34
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 12/09/18 15:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1187304-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 12/11/18 01:34
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 12/09/18 15:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1187304-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	39		10-120
4-Terphenyl-d14	55		41-149

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/10/18 15:48
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 12/10/18 08:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1187473-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	100	19.
Naphthalene	ND		ug/kg	170	20.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	68		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1187304-2 WG1187304-3								
Acenaphthene	56		62		37-111	10		30
1,2,4-Trichlorobenzene	60		61		39-98	2		30
Hexachlorobenzene	56		63		40-140	12		30
Bis(2-chloroethyl)ether	57		60		40-140	5		30
2-Chloronaphthalene	56		60		40-140	7		30
1,2-Dichlorobenzene	56		59		40-140	5		30
1,3-Dichlorobenzene	55		58		40-140	5		30
1,4-Dichlorobenzene	57		60		36-97	5		30
3,3'-Dichlorobenzidine	37	Q	42		40-140	13		30
2,4-Dinitrotoluene	40	Q	48		48-143	18		30
2,6-Dinitrotoluene	52		62		40-140	18		30
Fluoranthene	51		60		40-140	16		30
4-Chlorophenyl phenyl ether	56		63		40-140	12		30
4-Bromophenyl phenyl ether	54		62		40-140	14		30
Bis(2-chloroisopropyl)ether	55		59		40-140	7		30
Bis(2-chloroethoxy)methane	57		63		40-140	10		30
Hexachlorobutadiene	57		59		40-140	3		30
Hexachlorocyclopentadiene	43		47		40-140	9		30
Hexachloroethane	55		59		40-140	7		30
Isophorone	55		61		40-140	10		30
Naphthalene	57		60		40-140	5		30
Nitrobenzene	57		61		40-140	7		30
NDPA/DPA	55		63		40-140	14		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1187304-2 WG1187304-3								
n-Nitrosodi-n-propylamine	58		62		29-132	7		30
Bis(2-ethylhexyl)phthalate	42		52		40-140	21		30
Butyl benzyl phthalate	43		53		40-140	21		30
Di-n-butylphthalate	42		51		40-140	19		30
Di-n-octylphthalate	42		52		40-140	21		30
Diethyl phthalate	54		61		40-140	12		30
Dimethyl phthalate	56		63		40-140	12		30
Benzo(a)anthracene	51		60		40-140	16		30
Benzo(a)pyrene	53		68		40-140	25		30
Benzo(b)fluoranthene	53		66		40-140	22		30
Benzo(k)fluoranthene	54		70		40-140	26		30
Chrysene	54		65		40-140	18		30
Acenaphthylene	55		60		45-123	9		30
Anthracene	52		60		40-140	14		30
Benzo(ghi)perylene	58		68		40-140	16		30
Fluorene	56		64		40-140	13		30
Phenanthrene	53		61		40-140	14		30
Dibenzo(a,h)anthracene	55		66		40-140	18		30
Indeno(1,2,3-cd)pyrene	51		66		40-140	26		30
Pyrene	50		60		26-127	18		30
Biphenyl	59		64		40-140	8		30
4-Chloroaniline	49		50		40-140	2		30
2-Nitroaniline	46	Q	54		52-143	16		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1187304-2 WG1187304-3								
3-Nitroaniline	47		54		25-145	14		30
4-Nitroaniline	48	Q	55		51-143	14		30
Dibenzofuran	58		64		40-140	10		30
2-Methylnaphthalene	56		60		40-140	7		30
1,2,4,5-Tetrachlorobenzene	56		60		2-134	7		30
Acetophenone	56		61		39-129	9		30
2,4,6-Trichlorophenol	51		57		30-130	11		30
p-Chloro-m-cresol	50		57		23-97	13		30
2-Chlorophenol	54		58		27-123	7		30
2,4-Dichlorophenol	57		62		30-130	8		30
2,4-Dimethylphenol	54		49		30-130	10		30
2-Nitrophenol	51		57		30-130	11		30
4-Nitrophenol	45		56		10-80	22		30
2,4-Dinitrophenol	56		70		20-130	22		30
4,6-Dinitro-o-cresol	60		67		20-164	11		30
Pentachlorophenol	58		64		9-103	10		30
Phenol	45		47		12-110	4		30
2-Methylphenol	54		57		30-130	5		30
3-Methylphenol/4-Methylphenol	56		61		30-130	9		30
2,4,5-Trichlorophenol	52		59		30-130	13		30
Benzoic Acid	62		76		10-164	20		30
Benzyl Alcohol	49		56		26-116	13		30
Carbazole	52	Q	60		55-144	14		30

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1187304-2 WG1187304-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	47		51		21-120
Phenol-d6	40		44		10-120
Nitrobenzene-d5	55		62		23-120
2-Fluorobiphenyl	54		60		15-120
2,4,6-Tribromophenol	49		58		10-120
4-Terphenyl-d14	43		50		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1850360

Report Date: 12/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1187473-2 WG1187473-3								
Acenaphthene	73		76		31-137	4		50
Fluoranthene	76		80		40-140	5		50
Naphthalene	72		73		40-140	1		50
Benzo(a)anthracene	76		79		40-140	4		50
Benzo(a)pyrene	80		85		40-140	6		50
Benzo(b)fluoranthene	79		82		40-140	4		50
Benzo(k)fluoranthene	78		82		40-140	5		50
Chrysene	77		80		40-140	4		50
Acenaphthylene	82		84		40-140	2		50
Anthracene	76		80		40-140	5		50
Benzo(ghi)perylene	75		78		40-140	4		50
Fluorene	76		78		40-140	3		50
Phenanthrene	73		76		40-140	4		50
Dibenzo(a,h)anthracene	78		81		40-140	4		50
Indeno(1,2,3-cd)pyrene	76		79		40-140	4		50
Pyrene	76		78		35-142	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1187473-2 WG1187473-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	68		71		25-120
Phenol-d6	70		72		10-120
Nitrobenzene-d5	61		62		23-120
2-Fluorobiphenyl	76		78		30-120
2,4,6-Tribromophenol	78		82		10-136
4-Terphenyl-d14	63		65		18-120

PCBS

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-11
Client ID: EP_FB01_120718
Sample Location: NY, NY

Date Collected: 12/07/18 14:20
Date Received: 12/07/18
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 12/12/18 16:14
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 12/11/18 02:30
Cleanup Method: EPA 3665A
Cleanup Date: 12/11/18
Cleanup Method: EPA 3660B
Cleanup Date: 12/11/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	B
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 12/12/18 14:25
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 12/11/18 02:30
Cleanup Method: EPA 3665A
Cleanup Date: 12/11/18
Cleanup Method: EPA 3660B
Cleanup Date: 12/11/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 11 Batch: WG1187799-1						
Aroclor 1016	ND		ug/l	0.083	0.034	A
Aroclor 1221	ND		ug/l	0.083	0.067	A
Aroclor 1232	ND		ug/l	0.083	0.046	A
Aroclor 1242	ND		ug/l	0.083	0.039	A
Aroclor 1248	ND		ug/l	0.083	0.049	A
Aroclor 1254	ND		ug/l	0.083	0.039	A
Aroclor 1262	ND		ug/l	0.083	0.035	A
Aroclor 1268	ND		ug/l	0.083	0.034	A
Aroclor 1260	ND		ug/l	0.083	0.032	B
PCBs, Total	ND		ug/l	0.083	0.032	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	80		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 11 Batch: WG1187799-2 WG1187799-3									
Aroclor 1016	82		77		40-140	6		50	A
Aroclor 1260	83		81		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		88		30-150	A
Decachlorobiphenyl	88		84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		88		30-150	B
Decachlorobiphenyl	102		92		30-150	B

PESTICIDES

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-11
 Client ID: EP_FB01_120718
 Sample Location: NY, NY

Date Collected: 12/07/18 14:20
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 12/13/18 22:14
 Analyst: BM

Extraction Method: EPA 3510C
 Extraction Date: 12/11/18 02:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 300 W. 122ND ST.**Lab Number:** L1850360**Project Number:** 170500202**Report Date:** 12/14/18**SAMPLE RESULTS**

Lab ID: L1850360-11
 Client ID: EP_FB01_120718
 Sample Location: NY, NY

Date Collected: 12/07/18 14:20
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 300 W. 122ND ST.**Lab Number:** L1850360**Project Number:** 170500202**Report Date:** 12/14/18**SAMPLE RESULTS**

Lab ID: L1850360-11
 Client ID: EP_FB01_120718
 Sample Location: NY, NY

Date Collected: 12/07/18 14:20
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 12/14/18 12:51
 Analyst: KEG

Extraction Method: EPA 8151A
 Extraction Date: 12/13/18 15:47

Methylation Date: 12/14/18 03:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	125		30-150	A
DCAA	95		30-150	B

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/13/18 21:37
Analyst: BM

Extraction Method: EPA 3510C
Extraction Date: 12/11/18 02:27

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 11 Batch: WG1187797-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 12/13/18 21:37
 Analyst: BM

Extraction Method: EPA 3510C
 Extraction Date: 12/11/18 02:27

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 11 Batch: WG1187797-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/14/18 09:43
Analyst: KEG

Extraction Method: EPA 8151A
Extraction Date: 12/13/18 15:47

Methylation Date: 12/14/18 03:31

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 11 Batch: WG1189144-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	125		30-150	A
DCAA	93		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 11 Batch: WG1187797-2 WG1187797-3									
Delta-BHC	93		87		30-150	6		20	A
Lindane	84		81		30-150	4		20	A
Alpha-BHC	89		84		30-150	5		20	A
Beta-BHC	106		98		30-150	8		20	A
Heptachlor	84		81		30-150	4		20	A
Aldrin	81		82		30-150	1		20	A
Heptachlor epoxide	91		89		30-150	3		20	A
Endrin	89		86		30-150	4		20	A
Endrin aldehyde	71		69		30-150	2		20	A
Endrin ketone	96		90		30-150	6		20	A
Dieldrin	93		89		30-150	4		20	A
4,4'-DDE	91		90		30-150	1		20	A
4,4'-DDD	95		91		30-150	4		20	A
4,4'-DDT	96		90		30-150	6		20	A
Endosulfan I	85		80		30-150	5		20	A
Endosulfan II	90		86		30-150	4		20	A
Endosulfan sulfate	93		89		30-150	5		20	A
Methoxychlor	105		99		30-150	6		20	A
cis-Chlordane	77		80		30-150	3		20	A
trans-Chlordane	83		80		30-150	4		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 11 Batch: WG1187797-2 WG1187797-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		78		30-150	A
Decachlorobiphenyl	63		62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		75		30-150	B
Decachlorobiphenyl	61		64		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 11 Batch: WG1189144-2 WG1189144-3									
2,4-D	129		126		30-150	2		25	A
2,4,5-T	112		117		30-150	4		25	A
2,4,5-TP (Silvex)	107		108		30-150	1		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	120		126		30-150	A
DCAA	104		106		30-150	B

METALS

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-11
 Client ID: EP_FB01_120718
 Sample Location: NY, NY

Date Collected: 12/07/18 14:20
 Date Received: 12/07/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.032	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Antimony, Total	ND		mg/l	0.050	0.007	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Arsenic, Total	ND		mg/l	0.005	0.002	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Barium, Total	ND		mg/l	0.010	0.002	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Beryllium, Total	ND		mg/l	0.005	0.001	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Cadmium, Total	ND		mg/l	0.005	0.001	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Calcium, Total	0.037	J	mg/l	0.100	0.035	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Chromium, Total	ND		mg/l	0.010	0.002	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Cobalt, Total	ND		mg/l	0.020	0.002	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Copper, Total	0.002	J	mg/l	0.010	0.002	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Iron, Total	ND		mg/l	0.050	0.009	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Lead, Total	ND		mg/l	0.010	0.003	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Magnesium, Total	ND		mg/l	0.100	0.015	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Manganese, Total	ND		mg/l	0.010	0.002	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/12/18 11:51	12/12/18 22:23	EPA 7470A	1,7470A	MG
Nickel, Total	ND		mg/l	0.025	0.002	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Potassium, Total	ND		mg/l	2.50	0.237	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Selenium, Total	ND		mg/l	0.010	0.004	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Silver, Total	ND		mg/l	0.007	0.003	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Sodium, Total	ND		mg/l	2.00	0.120	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Thallium, Total	ND		mg/l	0.020	0.003	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Vanadium, Total	ND		mg/l	0.010	0.002	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
Zinc, Total	ND		mg/l	0.050	0.002	1	12/13/18 16:49	12/13/18 21:47	EPA 3005A	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		12/13/18 21:47	NA	107,-	



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

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): 11 Batch: WG1188497-1									
Mercury, Total	ND	mg/l	0.00020	0.00006	1	12/12/18 11:51	12/12/18 21:40	1,7470A	MG

Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 11 Batch: WG1189136-1										
Aluminum, Total	ND	mg/l	0.100	0.032	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Antimony, Total	ND	mg/l	0.050	0.007	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Arsenic, Total	ND	mg/l	0.005	0.002	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Barium, Total	ND	mg/l	0.010	0.002	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Beryllium, Total	ND	mg/l	0.005	0.001	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Cadmium, Total	ND	mg/l	0.005	0.001	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Calcium, Total	ND	mg/l	0.100	0.035	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Chromium, Total	ND	mg/l	0.010	0.002	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Cobalt, Total	ND	mg/l	0.020	0.002	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Copper, Total	ND	mg/l	0.010	0.002	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Iron, Total	ND	mg/l	0.050	0.009	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Lead, Total	ND	mg/l	0.010	0.003	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Magnesium, Total	ND	mg/l	0.100	0.015	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Manganese, Total	ND	mg/l	0.010	0.002	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Nickel, Total	ND	mg/l	0.025	0.002	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Potassium, Total	ND	mg/l	2.50	0.237	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Selenium, Total	ND	mg/l	0.010	0.004	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Silver, Total	ND	mg/l	0.007	0.003	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Sodium, Total	ND	mg/l	2.00	0.120	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Thallium, Total	0.003	J	mg/l	0.020	0.003	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB
Vanadium, Total	ND	mg/l	0.010	0.002	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	
Zinc, Total	ND	mg/l	0.050	0.002	1	12/13/18 16:49	12/13/18 20:38	1,6010D	AB	

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1188497-2								
Mercury, Total	109		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1850360

Report Date: 12/14/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1189136-2					
Aluminum, Total	102	-	80-120	-	
Antimony, Total	91	-	80-120	-	
Arsenic, Total	98	-	80-120	-	
Barium, Total	100	-	80-120	-	
Beryllium, Total	98	-	80-120	-	
Cadmium, Total	104	-	80-120	-	
Calcium, Total	99	-	80-120	-	
Chromium, Total	99	-	80-120	-	
Cobalt, Total	98	-	80-120	-	
Copper, Total	97	-	80-120	-	
Iron, Total	101	-	80-120	-	
Lead, Total	92	-	80-120	-	
Magnesium, Total	103	-	80-120	-	
Manganese, Total	96	-	80-120	-	
Nickel, Total	99	-	80-120	-	
Potassium, Total	100	-	80-120	-	
Selenium, Total	102	-	80-120	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	103	-	80-120	-	
Thallium, Total	92	-	80-120	-	
Vanadium, Total	101	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1850360

Report Date: 12/14/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1189136-2					
Zinc, Total	105	-	80-120	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1188497-3 QC Sample: L1849907-01 Client ID: MS Sample												
Mercury, Total	0.00056	0.005	0.00616	112	-	-	-	-	75-125	-	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1189136-3 QC Sample: L1850253-05 Client ID: MS Sample									
Aluminum, Total	ND	2	2.01	100	-	-	75-125	-	20
Antimony, Total	0.012J	0.5	0.473	95	-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.120	100	-	-	75-125	-	20
Barium, Total	ND	2	1.97	98	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.048	96	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.052	102	-	-	75-125	-	20
Calcium, Total	ND	10	9.76	98	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.194	97	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.486	97	-	-	75-125	-	20
Copper, Total	0.003J	0.25	0.239	96	-	-	75-125	-	20
Iron, Total	ND	1	1.00	100	-	-	75-125	-	20
Lead, Total	ND	0.51	0.472	92	-	-	75-125	-	20
Magnesium, Total	ND	10	10.2	102	-	-	75-125	-	20
Manganese, Total	ND	0.5	0.471	94	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.491	98	-	-	75-125	-	20
Potassium, Total	ND	10	9.91	99	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.120	100	-	-	75-125	-	20
Silver, Total	ND	0.05	0.050	100	-	-	75-125	-	20
Sodium, Total	0.122J	10	10.4	104	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.113	94	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.498	100	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1189136-3 QC Sample: L1850253-05 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.519	104	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1850360

Report Date: 12/14/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1188497-4 QC Sample: L1849907-01 Client ID: DUP Sample						
Mercury, Total	0.00056	0.00057	mg/l	3		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1850360

Report Date: 12/14/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1189136-4 QC Sample: L1850253-05 Client ID: DUP Sample					
Aluminum, Total	ND	ND	mg/l	NC	20
Antimony, Total	0.012J	0.014J	mg/l	NC	20
Arsenic, Total	ND	ND	mg/l	NC	20
Barium, Total	ND	ND	mg/l	NC	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Calcium, Total	ND	0.061J	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Cobalt, Total	ND	ND	mg/l	NC	20
Copper, Total	0.003J	0.004J	mg/l	NC	20
Iron, Total	ND	ND	mg/l	NC	20
Lead, Total	ND	ND	mg/l	NC	20
Magnesium, Total	ND	ND	mg/l	NC	20
Manganese, Total	ND	ND	mg/l	NC	20
Nickel, Total	ND	ND	mg/l	NC	20
Potassium, Total	ND	ND	mg/l	NC	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	0.122J	ND	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1850360

Report Date: 12/14/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1189136-4 QC Sample: L1850253-05 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20

INORGANICS & MISCELLANEOUS

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1850360

Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-01

Client ID: UST14_B1_15.5-16

Sample Location: NY, NY

Date Collected: 12/07/18 12:55

Date Received: 12/07/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	12/08/18 16:18	121,2540G	RI



Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1850360

Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-02

Client ID: UST14_B2_15.5-16

Sample Location: NY, NY

Date Collected: 12/07/18 13:00

Date Received: 12/07/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

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	-	12/08/18 16:18	121,2540G	RI



Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1850360

Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-03

Client ID: UST15_B1_15.5-16

Sample Location: NY, NY

Date Collected: 12/07/18 12:40

Date Received: 12/07/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.7		%	0.100	NA	1	-	12/08/18 16:18	121,2540G	RI



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-04
Client ID: UST15_B2_15.5-16
Sample Location: NY, NY

Date Collected: 12/07/18 12:45
Date Received: 12/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	12/08/18 16:18	121,2540G	RI



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-05
Client ID: UST16_B1_15.5-16
Sample Location: NY, NY

Date Collected: 12/07/18 12:25
Date Received: 12/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.5		%	0.100	NA	1	-	12/08/18 16:18	121,2540G	RI



Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1850360

Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-06

Client ID: UST16_B2_15.5-16

Sample Location: NY, NY

Date Collected: 12/07/18 12:30

Date Received: 12/07/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	12/08/18 16:18	121,2540G	RI



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-07
Client ID: UST17_B1_15.5-16
Sample Location: NY, NY

Date Collected: 12/07/18 12:00
Date Received: 12/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	12/08/18 16:18	121,2540G	RI



Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1850360

Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-08

Client ID: UST17_B2_15.5-16

Sample Location: NY, NY

Date Collected: 12/07/18 12:05

Date Received: 12/07/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	12/08/18 16:18	121,2540G	RI



Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1850360

Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-09

Client ID: UST_DUP01_120718

Sample Location: NY, NY

Date Collected: 12/07/18 00:00

Date Received: 12/07/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	12/08/18 16:18	121,2540G	RI



Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1850360

Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-10

Client ID: UST_DUP02_120718

Sample Location: NY, NY

Date Collected: 12/07/18 00:00

Date Received: 12/07/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.9		%	0.100	NA	1	-	12/08/18 16:18	121,2540G	RI



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

SAMPLE RESULTS

Lab ID: L1850360-11
Client ID: EP_FB01_120718
Sample Location: NY, NY

Date Collected: 12/07/18 14:20
Date Received: 12/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/10/18 05:06	12/10/18 14:38	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/08/18 03:34	12/08/18 04:05	1,7196A	JW



Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

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): 11 Batch: WG1187059-1									
Chromium, Hexavalent	ND	mg/l	0.010	0.003	1	12/08/18 03:34	12/08/18 04:04	1,7196A	JW
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG1187391-1									
Cyanide, Total	ND	mg/l	0.005	0.001	1	12/10/18 05:06	12/10/18 14:25	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1850360

Report Date: 12/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1187059-2								
Chromium, Hexavalent	98		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1187391-2 WG1187391-3								
Cyanide, Total	110		109		85-115	1		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1187059-4 QC Sample: L1850360-11 Client ID: EP_FB01_120718												
Chromium, Hexavalent	ND	0.1	0.097	97	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1187391-4 WG1187391-5 QC Sample: L1850360-11 Client ID: EP_FB01_120718												
Cyanide, Total	ND	0.2	0.212	106	0.208	104	104	80-120	2	2	2	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1850360

Report Date: 12/14/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1187059-3 QC Sample: L1850360-11 Client ID: EP_FB01_120718						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1187191-1 QC Sample: L1850304-06 Client ID: DUP Sample						
Solids, Total	79.9	78.4	%	2		20

Project Name: 300 W. 122ND ST.

Lab Number: L1850360

Project Number: 170500202

Report Date: 12/14/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1850360-01A	Vial MeOH preserved	B	NA		4.0	Y	Absent		NYTCL-8260HLW(14)
L1850360-01B	Vial water preserved	B	NA		4.0	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-01C	Vial water preserved	B	NA		4.0	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-01D	Plastic 2oz unpreserved for TS	B	NA		4.0	Y	Absent		TS(7)
L1850360-01E	Glass 500ml/16oz unpreserved	B	NA		4.0	Y	Absent		NYTCL-8270(14)
L1850360-02A	Vial MeOH preserved	B	NA		4.0	Y	Absent		NYTCL-8260HLW(14)
L1850360-02B	Vial water preserved	B	NA		4.0	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-02C	Vial water preserved	B	NA		4.0	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-02D	Plastic 2oz unpreserved for TS	B	NA		4.0	Y	Absent		TS(7)
L1850360-02E	Glass 500ml/16oz unpreserved	B	NA		4.0	Y	Absent		NYTCL-8270(14)
L1850360-03A	Vial MeOH preserved	A	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L1850360-03B	Vial water preserved	A	NA		3.6	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-03C	Vial water preserved	A	NA		3.6	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-03D	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L1850360-03E	Glass 500ml/16oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14)
L1850360-04A	Vial MeOH preserved	A	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L1850360-04B	Vial water preserved	A	NA		3.6	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-04C	Vial water preserved	A	NA		3.6	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-04D	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L1850360-04E	Glass 500ml/16oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14)
L1850360-05A	Vial MeOH preserved	A	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L1850360-05B	Vial water preserved	A	NA		3.6	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Serial_No:12141817:07
Lab Number: L1850360
Report Date: 12/14/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1850360-05C	Vial water preserved	A	NA		3.6	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-05D	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L1850360-05E	Glass 500ml/16oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14)
L1850360-06A	Vial MeOH preserved	B	NA		4.0	Y	Absent		NYTCL-8260HLW(14)
L1850360-06B	Vial water preserved	B	NA		4.0	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-06C	Vial water preserved	B	NA		4.0	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-06D	Plastic 2oz unpreserved for TS	B	NA		4.0	Y	Absent		TS(7)
L1850360-06E	Glass 500ml/16oz unpreserved	B	NA		4.0	Y	Absent		NYTCL-8270(14)
L1850360-07A	Vial MeOH preserved	B	NA		4.0	Y	Absent		NYTCL-8260HLW(14)
L1850360-07B	Vial water preserved	B	NA		4.0	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-07C	Vial water preserved	B	NA		4.0	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-07D	Plastic 2oz unpreserved for TS	B	NA		4.0	Y	Absent		TS(7)
L1850360-07E	Glass 500ml/16oz unpreserved	B	NA		4.0	Y	Absent		NYTCL-8270(14)
L1850360-08A	Vial MeOH preserved	B	NA		4.0	Y	Absent		NYTCL-8260HLW(14)
L1850360-08B	Vial water preserved	B	NA		4.0	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-08C	Vial water preserved	B	NA		4.0	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-08D	Plastic 2oz unpreserved for TS	B	NA		4.0	Y	Absent		TS(7)
L1850360-08E	Glass 500ml/16oz unpreserved	B	NA		4.0	Y	Absent		NYTCL-8270(14)
L1850360-09A	Vial MeOH preserved	B	NA		4.0	Y	Absent		NYTCL-8260HLW(14)
L1850360-09B	Vial water preserved	B	NA		4.0	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-09C	Vial water preserved	B	NA		4.0	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-09D	Plastic 2oz unpreserved for TS	B	NA		4.0	Y	Absent		TS(7)
L1850360-09E	Glass 500ml/16oz unpreserved	B	NA		4.0	Y	Absent		NYTCL-8270(14)
L1850360-10A	Vial MeOH preserved	B	NA		4.0	Y	Absent		NYTCL-8260HLW(14)
L1850360-10B	Vial water preserved	B	NA		4.0	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-10C	Vial water preserved	B	NA		4.0	Y	Absent	08-DEC-18 04:14	NYTCL-8260HLW(14)
L1850360-10D	Plastic 2oz unpreserved for TS	B	NA		4.0	Y	Absent		TS(7)
L1850360-10E	Glass 500ml/16oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14)

*Values in parentheses indicate holding time in days



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Serial_No:12141817:07
Lab Number: L1850360
Report Date: 12/14/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1850360-11A	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260(14)
L1850360-11B	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260(14)
L1850360-11C	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260(14)
L1850360-11D	Plastic 250ml HNO3 preserved	A	<2	<2	3.6	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)
L1850360-11E	Plastic 250ml NaOH preserved	A	>12	>12	3.6	Y	Absent		TCN-9010(14)
L1850360-11F	Amber 120ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8082-LVI(7)
L1850360-11G	Amber 120ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8082-LVI(7)
L1850360-11H	Amber 120ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8081(7)
L1850360-11I	Amber 120ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8081(7)
L1850360-11J	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-LVI(7)
L1850360-11K	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-LVI(7)
L1850360-11L	Plastic 500ml unpreserved	A	7	7	3.6	Y	Absent		HEXCR-7196(1)
L1850360-11M	Amber 1000ml unpreserved	A	7	7	3.6	Y	Absent		HERB-APA(7)
L1850360-11N	Amber 1000ml unpreserved	A	7	7	3.6	Y	Absent		HERB-APA(7)
L1850360-12A	Vial HCl preserved	A	N/A	N/A	3.6	Y	Absent		HOLD-8260(14)
L1850360-12B	Vial HCl preserved	A	N/A	N/A	3.6	Y	Absent		HOLD-8260(14)

*Values in parentheses indicate holding time in days



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1850360
Report Date: 12/14/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 W. 122ND ST.
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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 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 exceedances 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: 300 W. 122ND ST.
Project Number: 170500202

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Report Date: 12/14/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.


EPA 245.1 Hg.

SM2340B

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

	NEW YORK 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>2</u>	Date Rec'd in Lab <u>12/7/18</u>	ALPHA Job # <u>21850360</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>300 W. 122nd St</u> Project Location: <u>NY, NY</u> Project # <u>170500202</u>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #		
Client Information Client: <u>LANGAN PPL</u> Address: Phone: Fax: Email: <u>G.WYKA @ LANGAN.PPL.COM</u>		(Use Project name as Project #) <input type="checkbox"/> Project Manager: <u>Greg Wyka</u> ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:				
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.				ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)				
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	CP-51 VOCs CP-51 SVOCs	Total Bottles	Sample Specific Comments		
		Date	Time							
<u>50360-01</u>	<u>UST14-B1-18-19</u>	<u>12/7</u>	<u>1255</u>	<u>SOIL</u>	<u>AS</u>			<u>X</u>	<u>X</u>	<u>UST14_B1_15.5-16</u>
<u>02</u>	<u>UST14-B2-18-19</u>		<u>1255</u>					<u>X</u>	<u>X</u>	<u>UST14_B2_15.5-16</u>
<u>03</u>	<u>UST15-B1-18-19</u>		<u>1240</u>					<u>X</u>	<u>X</u>	<u>UST15_B1_15.5-16</u>
<u>04</u>	<u>UST15-B2-18-19</u>		<u>1245</u>					<u>X</u>	<u>X</u>	<u>UST15_B2_15.5-16</u>
<u>05</u>	<u>UST16-B1-18-19</u>		<u>1225</u>					<u>X</u>	<u>X</u>	<u>UST16_B1_15.5-16</u>
<u>06</u>	<u>UST16-B2-18-19</u>		<u>1230</u>					<u>X</u>	<u>X</u>	<u>UST16_B2_15.5-16</u>
<u>07</u>	<u>UST17-B1-18-19</u>		<u>1200</u>					<u>X</u>	<u>X</u>	<u>UST17_B1_15.5-16</u>
<u>08</u>	<u>UST17-B2-18-19</u>		<u>1300</u>					<u>X</u>	<u>X</u>	<u>UST17_B2_15.5-16</u>
<u>09</u>	<u>UST-DUP01-120718</u>							<u>X</u>	<u>X</u>	
<u>10</u>	<u>UST-DUP02-120718</u>					<u>X</u>	<u>X</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:		Date/Time		Received By:			Date/Time	
		<u>D. Santos APAC</u>		<u>12/7/18 1515</u>		<u>D. Santos</u>			<u>12/7/18 1515</u>	
		<u>D. Santos APAC</u>		<u>12/7/18 1830</u>		<u>D. Santos</u>		<u>12/7/18 1830</u>		
		<u>D. Santos APAC</u>		<u>12/7/18 2300</u>		<u>D. Santos</u>		<u>12/7/18 2300</u>		

 NEW YORK 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>	Date Rec'd in Lab <u>12/7/18</u>	ALPHA Job # <u>21850360</u>			
		of <u>2</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		Deliverables	Billing Information		
Project Name: <u>300 W. 122nd St</u> Project Location: <u>NY, NY</u> Project # <u>170500202</u>		<input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		<input checked="" type="checkbox"/> Same as Client Info PO #			
Client Information Client: <u>LANIGAN PPL</u> Address: Phone: Fax: Email: <u>G.WYKA @ LANIGAN.PPL</u>		Project Manager: <u>Greg Wyka</u> ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other.		
These samples have been previously analyzed by Alpha <input type="checkbox"/>		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
Other project specific requirements/comments:		Please specify Metals or TAL.		Total Bottles			
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time			Sample Matrix	Sampler's Initials
<u>50360-01</u>	<u>U-ST14-B1-18-19</u>	<u>12/7</u>	<u>1255</u>			<u>SOIL</u>	<u>MS</u>
<u>02</u>	<u>U-ST14-B2-18-19</u>		<u>1230</u>				
<u>03</u>	<u>U-ST15-B1-18-19</u>		<u>1240</u>				
<u>04</u>	<u>U-ST15-B2-18-19</u>		<u>1245</u>				
<u>05</u>	<u>U-ST16-B1-18-19</u>		<u>1225</u>				
<u>06</u>	<u>U-ST16-B2-18-19</u>		<u>1230</u>				
<u>07</u>	<u>U-ST17-B1-18-19</u>		<u>1200</u>				
<u>08</u>	<u>U-ST17-B2-18-19</u>		<u>1300</u>				
<u>09</u>	<u>U-ST-DUP01-120718</u>						
<u>10</u>	<u>U-ST-DUP02-120718</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>D. Santos APAC</u>		Date/Time: <u>12/7/18 1515</u>		Received By: <u>D. Santos</u>		Date/Time: <u>12/7/18 1515</u>	
Relinquished By: <u>D. Santos APAC</u>		Date/Time: <u>12/7/18 1830</u>		Received By: <u>D. Santos</u>		Date/Time: <u>12/7/18 1830</u>	
Relinquished By: <u>D. Santos APAC</u>		Date/Time: <u>12/7/18 2300</u>		Received By: <u>D. Santos</u>		Date/Time: <u>12/7/18 2300</u>	

 NEW YORK 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 2 of 2	Date Rec'd in Lab 12/1/18	ALPHA Job # U1850360				
	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: 300 W. 122nd St. Project Location: 170500202 Project # NY, NY (Use Project name as Project #) <input type="checkbox"/>					
Client Information Client: LANGAN, DPC Address: Phone: Fax: Email: G.WYKA@LANGAN.COM		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other						
Turn-Around Time Standard <input checked="" type="checkbox"/> Rush (only if pre approved) <input type="checkbox"/> Due Date: # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge						
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments:		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:						
Please specify Metals or TAL.		ANALYSIS Part 375 / TL / VOCs SVOCs Herbicides PCBs Metals + Pb Cyanide + Lead V + tri chrom						
Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		Total Bottles						
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Analysis Results (X)	Sample Specific Comments	
50360-11	EP_FBO1-120718	12/7	1420	AQ	AS	X X X X X X		
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:		Date/Time		Received By:		Date/Time		
[Signature]		12/7/18 1515		[Signature]		12/7/18 1515		
[Signature]		12/7/18 1530		D. Santos		12/7/18 1830		
[Signature]		12/7/18 2300		[Signature]		12/7/18 2300		



ANALYTICAL REPORT

Lab Number:	L1925840
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	06/20/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1925840-01	UST18_B1_9-9.5	SOIL	NY, NY	06/14/19 15:15	06/14/19
L1925840-02	UST18_B2_9-9.5	SOIL	NY, NY	06/14/19 15:10	06/14/19
L1925840-03	UST18_SW_9-10	SOIL	NY, NY	06/14/19 15:05	06/14/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

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

L1925840-01: The collection date and time on the chain of custody was 14-JUN-19 15:15; however, the collection date/time on the container label was 14-JUN-19 15:10. At the client's request, the collection date/time is reported as 14-JUN-19 15:15.

L1925840-02: The collection date and time on the chain of custody was 14-JUN-19 15:10; however, the collection date/time on the container label was 14-JUN-19 15:15. At the client's request, the collection date/time is reported as 14-JUN-19 15:10.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 06/20/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925840-01
 Client ID: UST18_B1_9-9.5
 Sample Location: NY, NY

Date Collected: 06/14/19 15:15
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/20/19 13:15
 Analyst: JC
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		ug/kg	0.62	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Methyl tert butyl ether	0.46	J	ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.14	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.80	1
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.41	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925840-02
 Client ID: UST18_B2_9-9.5
 Sample Location: NY, NY

Date Collected: 06/14/19 15:10
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/20/19 13:44
 Analyst: JC
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		ug/kg	0.44	0.14	1
Toluene	0.95		ug/kg	0.88	0.48	1
Ethylbenzene	0.13	J	ug/kg	0.88	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.49	1
o-Xylene	0.31	J	ug/kg	0.88	0.25	1
Xylenes, Total	0.31	J	ug/kg	0.88	0.25	1
n-Butylbenzene	ND		ug/kg	0.88	0.15	1
sec-Butylbenzene	ND		ug/kg	0.88	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.10	1
Isopropylbenzene	ND		ug/kg	0.88	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.88	0.10	1
Naphthalene	ND		ug/kg	3.5	0.57	1
n-Propylbenzene	ND		ug/kg	0.88	0.15	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.29	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925840-03
 Client ID: UST18_SW_9-10
 Sample Location: NY, NY

Date Collected: 06/14/19 15:05
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/20/19 14:13
 Analyst: AD
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.1	0.84	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 06/20/19 08:19
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1251021-5					
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1925840

Project Number: 170500202

Report Date: 06/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1251021-3 WG1251021-4								
Benzene	102		99		70-130	3		30
Toluene	101		98		70-130	3		30
Ethylbenzene	104		101		70-130	3		30
Methyl tert butyl ether	105		106		66-130	1		30
p/m-Xylene	106		103		70-130	3		30
o-Xylene	104		101		70-130	3		30
n-Butylbenzene	105		101		70-130	4		30
sec-Butylbenzene	104		100		70-130	4		30
tert-Butylbenzene	103		100		70-130	3		30
Isopropylbenzene	102		99		70-130	3		30
p-Isopropyltoluene	106		103		70-130	3		30
Naphthalene	98		101		70-130	3		30
n-Propylbenzene	101		98		70-130	3		30
1,3,5-Trimethylbenzene	103		100		70-130	3		30
1,2,4-Trimethylbenzene	102		99		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	103		105		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925840-01
 Client ID: UST18_B1_9-9.5
 Sample Location: NY, NY

Date Collected: 06/14/19 15:15
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/20/19 14:05
 Analyst: JG
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 06/20/19 03:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Fluoranthene	78	J	ug/kg	120	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	46	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	35	J	ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	34	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	23	J	ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	80	J	ug/kg	120	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	86		30-120
4-Terphenyl-d14	83		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925840-02
 Client ID: UST18_B2_9-9.5
 Sample Location: NY, NY

Date Collected: 06/14/19 15:10
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/20/19 14:31
 Analyst: JG
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 06/20/19 03:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Fluoranthene	49	J	ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	32	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	26	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	51	J	ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	85		30-120
4-Terphenyl-d14	83		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925840-03
 Client ID: UST18_SW_9-10
 Sample Location: NY, NY

Date Collected: 06/14/19 15:05
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/20/19 13:39
 Analyst: JG
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 06/20/19 03:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Fluoranthene	63	J	ug/kg	120	24.	1
Naphthalene	ND		ug/kg	210	26.	1
Benzo(a)anthracene	31	J	ug/kg	120	24.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	34.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	74	J	ug/kg	120	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	82		30-120
4-Terphenyl-d14	89		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/20/19 16:41
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 06/20/19 02:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1250700-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	100	19.
Naphthalene	ND		ug/kg	170	20.
Benzo(a)anthracene	19	J	ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	74		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1925840

Project Number: 170500202

Report Date: 06/20/19

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1250700-2 WG1250700-3								
Acenaphthene	74		74		31-137	0		50
Fluoranthene	78		81		40-140	4		50
Naphthalene	72		72		40-140	0		50
Benzo(a)anthracene	82		84		40-140	2		50
Benzo(a)pyrene	78		82		40-140	5		50
Benzo(b)fluoranthene	76		77		40-140	1		50
Benzo(k)fluoranthene	78		79		40-140	1		50
Chrysene	75		74		40-140	1		50
Acenaphthylene	76		76		40-140	0		50
Anthracene	78		80		40-140	3		50
Benzo(ghi)perylene	75		76		40-140	1		50
Fluorene	75		77		40-140	3		50
Phenanthrene	74		77		40-140	4		50
Dibenzo(a,h)anthracene	79		80		40-140	1		50
Indeno(1,2,3-cd)pyrene	82		80		40-140	2		50
Pyrene	76		77		35-142	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1925840

Project Number: 170500202

Report Date: 06/20/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1250700-2 WG1250700-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	81		78		25-120
Phenol-d6	80		78		10-120
Nitrobenzene-d5	83		79		23-120
2-Fluorobiphenyl	75		77		30-120
2,4,6-Tribromophenol	89		91		10-136
4-Terphenyl-d14	79		80		18-120

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925840-01
Client ID: UST18_B1_9-9.5
Sample Location: NY, NY

Date Collected: 06/14/19 15:15
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.4		%	0.100	NA	1	-	06/15/19 13:24	121,2540G	RI



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925840-02
Client ID: UST18_B2_9-9.5
Sample Location: NY, NY

Date Collected: 06/14/19 15:10
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.0		%	0.100	NA	1	-	06/15/19 13:24	121,2540G	RI



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925840-03
Client ID: UST18_SW_9-10
Sample Location: NY, NY

Date Collected: 06/14/19 15:05
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.1		%	0.100	NA	1	-	06/15/19 13:24	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1248971-1 QC Sample: L1925940-02 Client ID: DUP Sample						
Solids, Total	80.5	78.8	%	2		20

Project Name: 300 WEST 122ND ST.**Lab Number:** L1925840**Project Number:** 170500202**Report Date:** 06/20/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1925840-01A	Vial MeOH preserved	A	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L1925840-01B	Vial water preserved	A	NA		4.6	Y	Absent	15-JUN-19 05:46	NYTCL-8260HLW(14)
L1925840-01C	Vial water preserved	A	NA		4.6	Y	Absent	15-JUN-19 05:46	NYTCL-8260HLW(14)
L1925840-01D	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		TS(7)
L1925840-01E	Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		NYTCL-8270(14)
L1925840-01F	Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		NYTCL-8270(14)
L1925840-02A	Vial MeOH preserved	A	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L1925840-02B	Vial water preserved	A	NA		4.6	Y	Absent	15-JUN-19 05:46	NYTCL-8260HLW(14)
L1925840-02C	Vial water preserved	A	NA		4.6	Y	Absent	15-JUN-19 05:46	NYTCL-8260HLW(14)
L1925840-02D	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		TS(7)
L1925840-02E	Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		NYTCL-8270(14)
L1925840-02F	Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		NYTCL-8270(14)
L1925840-03A	Vial MeOH preserved	A	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L1925840-03B	Vial water preserved	A	NA		4.6	Y	Absent	15-JUN-19 05:46	NYTCL-8260HLW(14)
L1925840-03C	Vial water preserved	A	NA		4.6	Y	Absent	15-JUN-19 05:46	NYTCL-8260HLW(14)
L1925840-03D	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		TS(7)
L1925840-03E	Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		NYTCL-8270(14)
L1925840-03F	Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		NYTCL-8270(14)

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

- 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

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1925840
Report Date: 06/20/19

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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK 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>	Date Rec'd in Lab <u>6/15/19</u>	ALPHA Job # <u>L1925840</u>		
		of <u>1</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		Deliverables	Billing Information	
Project Name: <u>300 West 122nd St.</u> Project Location: <u>NY, NY</u> Project # <u>170500202</u> (Use Project name as Project #) <input type="checkbox"/>		Project Manager: <u>Greg Wyka</u> ALPHAQuote #: <u>6</u> Turn-Around Time:		<input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Same as Client Info PO #	
Client: <u>LANGAN, DPC</u> Address: Phone: Fax: Email: <u>G.WYKA@LANGAN.COM</u>		Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other <u>CP-51</u> <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:	
These samples have been previously analyzed by Alpha <input type="checkbox"/>		ANALYSIS		Sample Filtration		
Other project specific requirements/comments:		Please specify Metals or TAL.		<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> 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
<u>25840-1</u>	<u>USTRB-B1-9-9.5</u>	<u>6/14/19</u>	<u>1515</u>	<u>SOIL</u>	<u>AS</u>	<u>CP-51 VDLs</u>
<u>13</u>	<u>USTRB-B2-9-9.5</u>	<u>↓</u>	<u>1510</u>	<u>↓</u>	<u>↓</u>	<u>CP-51 SVDGs</u>
<u>03</u>	<u>USTRB-SW-9-10</u>	<u>↓</u>	<u>1505</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
Relinquished By: <u>[Signature]</u>		Date/Time: <u>6/14/19 1550</u>		Received By: <u>[Signature]</u>		Date/Time: <u>6/14/19 1550</u>
Relinquished By: <u>[Signature]</u>		Date/Time: <u>6/14/19 1745</u>		Received By: <u>[Signature]</u>		Date/Time: <u>6/14 20:30</u>
Relinquished By: <u>[Signature]</u>		Date/Time: <u>6/14/19 00:20</u>		Received By: <u>[Signature]</u>		Date/Time: <u>6/14/19 00:20</u>

Confirmation Endpoint Soil Sample Laboratory Reports



ANALYTICAL REPORT

Lab Number:	L1851440
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 W. 122ND ST.
Project Number:	170500202
Report Date:	12/21/18

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1851440-01	EP01_9_121318	SOIL	NY, NY	12/13/18 08:04	12/13/18
L1851440-02	EP01_10.5_121318	SOIL	NY, NY	12/13/18 08:00	12/13/18

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

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: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

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.

Volatile Organics

L1851440-02: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

Total Metals

L1851440-01 and 02: 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.

Cyanide, Total

The WG1189483-3 LCSD recovery (75%), associated with L1851440-01 and -02, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

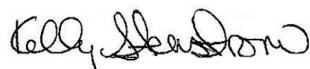
Hexavalent Chromium

The WG1189704-2 LCS recovery (79%), associated with L1851440-01 and -02, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1189704-5 Soluble MS recovery (43%), performed on L1851440-02, was outside the acceptance criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 98%.

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: 12/21/18

ORGANICS

VOLATILES

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-01
 Client ID: EP01_9_121318
 Sample Location: NY, NY

Date Collected: 12/13/18 08:04
 Date Received: 12/13/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/18/18 22:01
 Analyst: MV
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	0.28	J	ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-01
 Client ID: EP01_9_121318
 Sample Location: NY, NY

Date Collected: 12/13/18 08:04
 Date Received: 12/13/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	14		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-01
Client ID: EP01_9_121318
Sample Location: NY, NY

Date Collected: 12/13/18 08:04
Date Received: 12/13/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	100	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	94		70-130

Project Name: 300 W. 122ND ST.**Lab Number:** L1851440**Project Number:** 170500202**Report Date:** 12/21/18**SAMPLE RESULTS**

Lab ID: L1851440-02
 Client ID: EP01_10.5_121318
 Sample Location: NY, NY

Date Collected: 12/13/18 08:00
 Date Received: 12/13/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/19/18 09:39
 Analyst: MV
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	280	130	1
1,1-Dichloroethane	ND		ug/kg	55	8.0	1
Chloroform	ND		ug/kg	83	7.8	1
Carbon tetrachloride	ND		ug/kg	55	13.	1
1,2-Dichloropropane	ND		ug/kg	55	6.9	1
Dibromochloromethane	ND		ug/kg	55	7.8	1
1,1,2-Trichloroethane	ND		ug/kg	55	15.	1
Tetrachloroethene	64		ug/kg	28	11.	1
Chlorobenzene	ND		ug/kg	28	7.0	1
Trichlorofluoromethane	ND		ug/kg	220	38.	1
1,2-Dichloroethane	ND		ug/kg	55	14.	1
1,1,1-Trichloroethane	ND		ug/kg	28	9.2	1
Bromodichloromethane	ND		ug/kg	28	6.0	1
trans-1,3-Dichloropropene	ND		ug/kg	55	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	28	8.7	1
1,3-Dichloropropene, Total	ND		ug/kg	28	8.7	1
1,1-Dichloropropene	ND		ug/kg	28	8.8	1
Bromoform	ND		ug/kg	220	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	28	9.2	1
Benzene	ND		ug/kg	28	9.2	1
Toluene	ND		ug/kg	55	30.	1
Ethylbenzene	ND		ug/kg	55	7.8	1
Chloromethane	ND		ug/kg	220	52.	1
Bromomethane	ND		ug/kg	110	32.	1
Vinyl chloride	ND		ug/kg	55	18.	1
Chloroethane	ND		ug/kg	110	25.	1
1,1-Dichloroethene	ND		ug/kg	55	13.	1
trans-1,2-Dichloroethene	ND		ug/kg	83	7.6	1

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-02
 Client ID: EP01_10.5_121318
 Sample Location: NY, NY

Date Collected: 12/13/18 08:00
 Date Received: 12/13/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	28	7.6	1
1,2-Dichlorobenzene	ND		ug/kg	110	8.0	1
1,3-Dichlorobenzene	ND		ug/kg	110	8.2	1
1,4-Dichlorobenzene	ND		ug/kg	110	9.5	1
Methyl tert butyl ether	ND		ug/kg	110	11.	1
p/m-Xylene	ND		ug/kg	110	31.	1
o-Xylene	ND		ug/kg	55	16.	1
Xylenes, Total	ND		ug/kg	55	16.	1
cis-1,2-Dichloroethene	ND		ug/kg	55	9.7	1
1,2-Dichloroethene, Total	ND		ug/kg	55	7.6	1
Dibromomethane	ND		ug/kg	110	13.	1
Styrene	ND		ug/kg	55	11.	1
Dichlorodifluoromethane	ND		ug/kg	550	51.	1
Acetone	ND		ug/kg	550	270	1
Carbon disulfide	ND		ug/kg	550	250	1
2-Butanone	ND		ug/kg	550	120	1
Vinyl acetate	ND		ug/kg	550	120	1
4-Methyl-2-pentanone	ND		ug/kg	550	71.	1
1,2,3-Trichloropropane	ND		ug/kg	110	7.0	1
2-Hexanone	ND		ug/kg	550	65.	1
Bromochloromethane	ND		ug/kg	110	11.	1
2,2-Dichloropropane	ND		ug/kg	110	11.	1
1,2-Dibromoethane	ND		ug/kg	55	15.	1
1,3-Dichloropropane	ND		ug/kg	110	9.2	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	28	7.3	1
Bromobenzene	ND		ug/kg	110	8.0	1
n-Butylbenzene	ND		ug/kg	55	9.2	1
sec-Butylbenzene	ND		ug/kg	55	8.1	1
tert-Butylbenzene	ND		ug/kg	110	6.5	1
o-Chlorotoluene	ND		ug/kg	110	10.	1
p-Chlorotoluene	ND		ug/kg	110	6.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	170	55.	1
Hexachlorobutadiene	ND		ug/kg	220	9.4	1
Isopropylbenzene	ND		ug/kg	55	6.0	1
p-Isopropyltoluene	ND		ug/kg	55	6.0	1
Naphthalene	ND		ug/kg	220	36.	1
Acrylonitrile	ND		ug/kg	220	64.	1

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-02
Client ID: EP01_10.5_121318
Sample Location: NY, NY

Date Collected: 12/13/18 08:00
Date Received: 12/13/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	55	9.5	1
1,2,3-Trichlorobenzene	ND		ug/kg	110	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	15.	1
1,3,5-Trimethylbenzene	ND		ug/kg	110	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	110	18.	1
1,4-Dioxane	ND		ug/kg	5500	1900	1
p-Diethylbenzene	ND		ug/kg	110	9.8	1
p-Ethyltoluene	ND		ug/kg	110	21.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	110	10.	1
Ethyl ether	ND		ug/kg	110	19.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	280	79.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	108		70-130

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 12/19/18 08:47
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1190705-10					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 12/19/18 08:47
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1190705-10					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 12/19/18 08:47
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1190705-10					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	5000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	110		70-130

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/18/18 21:09
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1191009-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/18/18 21:09
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1191009-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 12/18/18 21:09
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1191009-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	100	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1190705-8 WG1190705-9								
Methylene chloride	104		101		70-130	3		30
1,1-Dichloroethane	100		102		70-130	2		30
Chloroform	110		112		70-130	2		30
Carbon tetrachloride	140	Q	141	Q	70-130	1		30
1,2-Dichloropropane	89		90		70-130	1		30
Dibromochloromethane	110		110		70-130	0		30
1,1,2-Trichloroethane	87		94		70-130	8		30
Tetrachloroethene	114		110		70-130	4		30
Chlorobenzene	98		96		70-130	2		30
Trichlorofluoromethane	161	Q	156	Q	70-139	3		30
1,2-Dichloroethane	115		118		70-130	3		30
1,1,1-Trichloroethane	129		128		70-130	1		30
Bromodichloromethane	111		114		70-130	3		30
trans-1,3-Dichloropropene	100		107		70-130	7		30
cis-1,3-Dichloropropene	102		102		70-130	0		30
1,1-Dichloropropene	111		112		70-130	1		30
Bromoform	104		104		70-130	0		30
1,1,2,2-Tetrachloroethane	85		83		70-130	2		30
Benzene	100		98		70-130	2		30
Toluene	98		96		70-130	2		30
Ethylbenzene	101		98		70-130	3		30
Chloromethane	129		120		52-130	7		30
Bromomethane	155	Q	139		57-147	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1190705-8 WG1190705-9								
Vinyl chloride	148	Q	144	Q	67-130	3		30
Chloroethane	147		131		50-151	12		30
1,1-Dichloroethene	126		117		65-135	7		30
trans-1,2-Dichloroethene	112		107		70-130	5		30
Trichloroethene	108		107		70-130	1		30
1,2-Dichlorobenzene	99		98		70-130	1		30
1,3-Dichlorobenzene	99		97		70-130	2		30
1,4-Dichlorobenzene	99		96		70-130	3		30
Methyl tert butyl ether	109		106		66-130	3		30
p/m-Xylene	101		100		70-130	1		30
o-Xylene	101		98		70-130	3		30
cis-1,2-Dichloroethene	104		106		70-130	2		30
Dibromomethane	106		107		70-130	1		30
Styrene	99		99		70-130	0		30
Dichlorodifluoromethane	177	Q	170	Q	30-146	4		30
Acetone	119		97		54-140	20		30
Carbon disulfide	108		101		59-130	7		30
2-Butanone	86		90		70-130	5		30
Vinyl acetate	110		115		70-130	4		30
4-Methyl-2-pentanone	75		81		70-130	8		30
1,2,3-Trichloropropane	92		93		68-130	1		30
2-Hexanone	74		78		70-130	5		30
Bromochloromethane	111		108		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1190705-8 WG1190705-9								
2,2-Dichloropropane	125		129		70-130	3		30
1,2-Dibromoethane	99		99		70-130	0		30
1,3-Dichloropropane	90		94		69-130	4		30
1,1,1,2-Tetrachloroethane	113		108		70-130	5		30
Bromobenzene	99		97		70-130	2		30
n-Butylbenzene	99		95		70-130	4		30
sec-Butylbenzene	102		95		70-130	7		30
tert-Butylbenzene	105		99		70-130	6		30
o-Chlorotoluene	101		96		70-130	5		30
p-Chlorotoluene	100		94		70-130	6		30
1,2-Dibromo-3-chloropropane	88		87		68-130	1		30
Hexachlorobutadiene	110		107		67-130	3		30
Isopropylbenzene	99		93		70-130	6		30
p-Isopropyltoluene	105		100		70-130	5		30
Naphthalene	97		90		70-130	7		30
Acrylonitrile	82		89		70-130	8		30
n-Propylbenzene	99		91		70-130	8		30
1,2,3-Trichlorobenzene	101		95		70-130	6		30
1,2,4-Trichlorobenzene	105		99		70-130	6		30
1,3,5-Trimethylbenzene	103		98		70-130	5		30
1,2,4-Trimethylbenzene	104		97		70-130	7		30
1,4-Dioxane	94		96		65-136	2		30
p-Diethylbenzene	100		95		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1851440

Report Date: 12/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1190705-8 WG1190705-9								
p-Ethyltoluene	100		93		70-130	7		30
1,2,4,5-Tetramethylbenzene	100		98		70-130	2		30
Ethyl ether	105		104		67-130	1		30
trans-1,4-Dichloro-2-butene	113		112		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	113		117		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	99		96		70-130
Dibromofluoromethane	106		111		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

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: WG1191009-3 WG1191009-4								
Methylene chloride	86		89		70-130	3		30
1,1-Dichloroethane	93		94		70-130	1		30
Chloroform	80		81		70-130	1		30
Carbon tetrachloride	90		92		70-130	2		30
1,2-Dichloropropane	91		93		70-130	2		30
Dibromochloromethane	98		99		70-130	1		30
1,1,2-Trichloroethane	90		94		70-130	4		30
Tetrachloroethene	101		101		70-130	0		30
Chlorobenzene	92		94		70-130	2		30
Trichlorofluoromethane	86		89		70-139	3		30
1,2-Dichloroethane	88		91		70-130	3		30
1,1,1-Trichloroethane	90		91		70-130	1		30
Bromodichloromethane	80		83		70-130	4		30
trans-1,3-Dichloropropene	94		92		70-130	2		30
cis-1,3-Dichloropropene	82		85		70-130	4		30
1,1-Dichloropropene	86		87		70-130	1		30
Bromoform	95		99		70-130	4		30
1,1,2,2-Tetrachloroethane	88		91		70-130	3		30
Benzene	81		82		70-130	1		30
Toluene	92		92		70-130	0		30
Ethylbenzene	91		92		70-130	1		30
Chloromethane	129		127		52-130	2		30
Bromomethane	152	Q	150	Q	57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1191009-3 WG1191009-4								
Vinyl chloride	121		122		67-130	1		30
Chloroethane	101		102		50-151	1		30
1,1-Dichloroethene	108		108		65-135	0		30
trans-1,2-Dichloroethene	93		92		70-130	1		30
Trichloroethene	84		89		70-130	6		30
1,2-Dichlorobenzene	92		93		70-130	1		30
1,3-Dichlorobenzene	92		94		70-130	2		30
1,4-Dichlorobenzene	92		92		70-130	0		30
Methyl tert butyl ether	85		89		66-130	5		30
p/m-Xylene	91		92		70-130	1		30
o-Xylene	91		91		70-130	0		30
cis-1,2-Dichloroethene	88		89		70-130	1		30
Dibromomethane	82		86		70-130	5		30
Styrene	89		90		70-130	1		30
Dichlorodifluoromethane	135		135		30-146	0		30
Acetone	88		106		54-140	19		30
Carbon disulfide	92		86		59-130	7		30
2-Butanone	82		100		70-130	20		30
Vinyl acetate	95		97		70-130	2		30
4-Methyl-2-pentanone	107		119		70-130	11		30
1,2,3-Trichloropropane	83		90		68-130	8		30
2-Hexanone	83		97		70-130	16		30
Bromochloromethane	94		99		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

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: WG1191009-3 WG1191009-4								
2,2-Dichloropropane	84		86		70-130	2		30
1,2-Dibromoethane	95		102		70-130	7		30
1,3-Dichloropropane	90		92		69-130	2		30
1,1,1,2-Tetrachloroethane	98		102		70-130	4		30
Bromobenzene	89		91		70-130	2		30
n-Butylbenzene	93		92		70-130	1		30
sec-Butylbenzene	90		89		70-130	1		30
tert-Butylbenzene	96		96		70-130	0		30
o-Chlorotoluene	88		88		70-130	0		30
p-Chlorotoluene	89		89		70-130	0		30
1,2-Dibromo-3-chloropropane	94		105		68-130	11		30
Hexachlorobutadiene	96		94		67-130	2		30
Isopropylbenzene	88		88		70-130	0		30
p-Isopropyltoluene	96		96		70-130	0		30
Naphthalene	92		99		70-130	7		30
Acrylonitrile	101		114		70-130	12		30
n-Propylbenzene	89		89		70-130	0		30
1,2,3-Trichlorobenzene	91		92		70-130	1		30
1,2,4-Trichlorobenzene	93		93		70-130	0		30
1,3,5-Trimethylbenzene	88		88		70-130	0		30
1,2,4-Trimethylbenzene	88		90		70-130	2		30
1,4-Dioxane	94		117		65-136	22		30
p-Diethylbenzene	97		95		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1851440

Report Date: 12/21/18

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: WG1191009-3 WG1191009-4								
p-Ethyltoluene	87		87		70-130	0		30
1,2,4,5-Tetramethylbenzene	92		92		70-130	0		30
Ethyl ether	89		93		67-130	4		30
trans-1,4-Dichloro-2-butene	102		108		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		103		70-130
Toluene-d8	106		107		70-130
4-Bromofluorobenzene	100		98		70-130
Dibromofluoromethane	93		95		70-130

SEMIVOLATILES

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-01
 Client ID: EP01_9_121318
 Sample Location: NY, NY

Date Collected: 12/13/18 08:04
 Date Received: 12/13/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/18/18 07:00
 Analyst: ALS
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 12/14/18 17:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-01
 Client ID: EP01_9_121318
 Sample Location: NY, NY

Date Collected: 12/13/18 08:04
 Date Received: 12/13/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-01
Client ID: EP01_9_121318
Sample Location: NY, NY

Date Collected: 12/13/18 08:04
Date Received: 12/13/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	69		18-120

Project Name: 300 W. 122ND ST.**Lab Number:** L1851440**Project Number:** 170500202**Report Date:** 12/21/18**SAMPLE RESULTS**

Lab ID: L1851440-02
 Client ID: EP01_10.5_121318
 Sample Location: NY, NY

Date Collected: 12/13/18 08:00
 Date Received: 12/13/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/18/18 07:25
 Analyst: ALS
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 12/14/18 17:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-02
 Client ID: EP01_10.5_121318
 Sample Location: NY, NY

Date Collected: 12/13/18 08:00
 Date Received: 12/13/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	130		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	910	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 300 W. 122ND ST.**Lab Number:** L1851440**Project Number:** 170500202**Report Date:** 12/21/18**SAMPLE RESULTS**

Lab ID: L1851440-02
 Client ID: EP01_10.5_121318
 Sample Location: NY, NY

Date Collected: 12/13/18 08:00
 Date Received: 12/13/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	50		10-136
4-Terphenyl-d14	53		18-120

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/14/18 21:10
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 12/14/18 08:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1189390-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	100	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/14/18 21:10
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 12/14/18 08:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1189390-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	69.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 12/14/18 21:10
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 12/14/18 08:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1189390-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	59		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1189390-2 WG1189390-3								
Acenaphthene	65		62		31-137	5		50
1,2,4-Trichlorobenzene	64		59		38-107	8		50
Hexachlorobenzene	67		64		40-140	5		50
Bis(2-chloroethyl)ether	66		60		40-140	10		50
2-Chloronaphthalene	67		63		40-140	6		50
1,2-Dichlorobenzene	58		55		40-140	5		50
1,3-Dichlorobenzene	57		54		40-140	5		50
1,4-Dichlorobenzene	58		54		28-104	7		50
3,3'-Dichlorobenzidine	42		42		40-140	0		50
2,4-Dinitrotoluene	77		72		40-132	7		50
2,6-Dinitrotoluene	76		73		40-140	4		50
Fluoranthene	70		66		40-140	6		50
4-Chlorophenyl phenyl ether	63		62		40-140	2		50
4-Bromophenyl phenyl ether	66		64		40-140	3		50
Bis(2-chloroisopropyl)ether	60		56		40-140	7		50
Bis(2-chloroethoxy)methane	71		67		40-117	6		50
Hexachlorobutadiene	58		54		40-140	7		50
Hexachlorocyclopentadiene	54		50		40-140	8		50
Hexachloroethane	60		57		40-140	5		50
Isophorone	74		69		40-140	7		50
Naphthalene	61		57		40-140	7		50
Nitrobenzene	68		64		40-140	6		50
NDPA/DPA	70		66		36-157	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1189390-2 WG1189390-3								
n-Nitrosodi-n-propylamine	72		67		32-121	7		50
Bis(2-ethylhexyl)phthalate	73		70		40-140	4		50
Butyl benzyl phthalate	75		71		40-140	5		50
Di-n-butylphthalate	78		74		40-140	5		50
Di-n-octylphthalate	74		70		40-140	6		50
Diethyl phthalate	72		68		40-140	6		50
Dimethyl phthalate	72		68		40-140	6		50
Benzo(a)anthracene	68		64		40-140	6		50
Benzo(a)pyrene	74		70		40-140	6		50
Benzo(b)fluoranthene	73		73		40-140	0		50
Benzo(k)fluoranthene	71		65		40-140	9		50
Chrysene	68		64		40-140	6		50
Acenaphthylene	71		69		40-140	3		50
Anthracene	69		66		40-140	4		50
Benzo(ghi)perylene	69		66		40-140	4		50
Fluorene	68		65		40-140	5		50
Phenanthrene	65		62		40-140	5		50
Dibenzo(a,h)anthracene	69		67		40-140	3		50
Indeno(1,2,3-cd)pyrene	68		66		40-140	3		50
Pyrene	68		64		35-142	6		50
Biphenyl	70		67		54-104	4		50
4-Chloroaniline	56		55		40-140	2		50
2-Nitroaniline	75		70		47-134	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1189390-2 WG1189390-3								
3-Nitroaniline	49		47		26-129	4		50
4-Nitroaniline	68		64		41-125	6		50
Dibenzofuran	66		63		40-140	5		50
2-Methylnaphthalene	64		62		40-140	3		50
1,2,4,5-Tetrachlorobenzene	66		63		40-117	5		50
Acetophenone	73		68		14-144	7		50
2,4,6-Trichlorophenol	74		69		30-130	7		50
p-Chloro-m-cresol	75		69		26-103	8		50
2-Chlorophenol	68		64		25-102	6		50
2,4-Dichlorophenol	74		70		30-130	6		50
2,4-Dimethylphenol	76		70		30-130	8		50
2-Nitrophenol	70		66		30-130	6		50
4-Nitrophenol	78		72		11-114	8		50
2,4-Dinitrophenol	74		72		4-130	3		50
4,6-Dinitro-o-cresol	76		73		10-130	4		50
Pentachlorophenol	65		62		17-109	5		50
Phenol	65		61		26-90	6		50
2-Methylphenol	71		67		30-130.	6		50
3-Methylphenol/4-Methylphenol	74		68		30-130	8		50
2,4,5-Trichlorophenol	74		69		30-130	7		50
Benzoic Acid	43		46		10-110	7		50
Benzyl Alcohol	74		70		40-140	6		50
Carbazole	70		66		54-128	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1189390-2 WG1189390-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	67		62		25-120
Phenol-d6	71		66		10-120
Nitrobenzene-d5	69		64		23-120
2-Fluorobiphenyl	65		61		30-120
2,4,6-Tribromophenol	78		74		10-136
4-Terphenyl-d14	59		57		18-120

PCBS

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-01
 Client ID: EP01_9_121318
 Sample Location: NY, NY

Date Collected: 12/13/18 08:04
 Date Received: 12/13/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 12/18/18 18:26
 Analyst: JW
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 12/14/18 19:08
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/15/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.2	3.57	1	A
Aroclor 1221	ND		ug/kg	40.2	4.02	1	A
Aroclor 1232	ND		ug/kg	40.2	8.52	1	A
Aroclor 1242	ND		ug/kg	40.2	5.41	1	A
Aroclor 1248	ND		ug/kg	40.2	6.02	1	A
Aroclor 1254	ND		ug/kg	40.2	4.39	1	A
Aroclor 1260	ND		ug/kg	40.2	7.42	1	A
Aroclor 1262	ND		ug/kg	40.2	5.10	1	A
Aroclor 1268	ND		ug/kg	40.2	4.16	1	A
PCBs, Total	ND		ug/kg	40.2	3.57	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-02
 Client ID: EP01_10.5_121318
 Sample Location: NY, NY

Date Collected: 12/13/18 08:00
 Date Received: 12/13/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 12/18/18 15:39
 Analyst: JW
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 12/14/18 19:08
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/15/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	3.37	1	A
Aroclor 1221	ND		ug/kg	38.0	3.81	1	A
Aroclor 1232	ND		ug/kg	38.0	8.06	1	A
Aroclor 1242	ND		ug/kg	38.0	5.12	1	A
Aroclor 1248	ND		ug/kg	38.0	5.70	1	A
Aroclor 1254	ND		ug/kg	38.0	4.16	1	A
Aroclor 1260	ND		ug/kg	38.0	7.02	1	A
Aroclor 1262	ND		ug/kg	38.0	4.82	1	A
Aroclor 1268	ND		ug/kg	38.0	3.94	1	A
PCBs, Total	ND		ug/kg	38.0	3.37	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 12/16/18 20:31
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 12/14/18 19:08
Cleanup Method: EPA 3665A
Cleanup Date: 12/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 12/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1189677-1						
Aroclor 1016	ND		ug/kg	32.2	2.86	A
Aroclor 1221	ND		ug/kg	32.2	3.22	A
Aroclor 1232	ND		ug/kg	32.2	6.82	A
Aroclor 1242	ND		ug/kg	32.2	4.33	A
Aroclor 1248	ND		ug/kg	32.2	4.82	A
Aroclor 1254	ND		ug/kg	32.2	3.52	A
Aroclor 1260	ND		ug/kg	32.2	5.94	A
Aroclor 1262	ND		ug/kg	32.2	4.08	A
Aroclor 1268	ND		ug/kg	32.2	3.33	A
PCBs, Total	ND		ug/kg	32.2	2.86	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	43		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1189677-2 WG1189677-3									
Aroclor 1016	81		80		40-140	1		50	A
Aroclor 1260	62		63		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		74		30-150	A
Decachlorobiphenyl	62		54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		69		30-150	B
Decachlorobiphenyl	45		40		30-150	B

PESTICIDES

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-01
Client ID: EP01_9_121318
Sample Location: NY, NY

Date Collected: 12/13/18 08:04
Date Received: 12/13/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/18/18 10:54
Analyst: KB
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 12/14/18 19:01
Cleanup Method: EPA 3620B
Cleanup Date: 12/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.92	0.376	1	A
Lindane	ND		ug/kg	0.801	0.358	1	A
Alpha-BHC	ND		ug/kg	0.801	0.228	1	A
Beta-BHC	ND		ug/kg	1.92	0.729	1	A
Heptachlor	ND		ug/kg	0.962	0.431	1	A
Aldrin	ND		ug/kg	1.92	0.677	1	A
Heptachlor epoxide	ND		ug/kg	3.60	1.08	1	A
Endrin	ND		ug/kg	0.801	0.328	1	A
Endrin aldehyde	ND		ug/kg	2.40	0.841	1	A
Endrin ketone	ND		ug/kg	1.92	0.495	1	A
Dieldrin	ND		ug/kg	1.20	0.601	1	A
4,4'-DDE	ND		ug/kg	1.92	0.445	1	A
4,4'-DDD	ND		ug/kg	1.92	0.686	1	A
4,4'-DDT	ND		ug/kg	3.60	1.55	1	A
Endosulfan I	ND		ug/kg	1.92	0.454	1	A
Endosulfan II	ND		ug/kg	1.92	0.643	1	A
Endosulfan sulfate	ND		ug/kg	0.801	0.381	1	A
Methoxychlor	ND		ug/kg	3.60	1.12	1	A
Toxaphene	ND		ug/kg	36.0	10.1	1	A
cis-Chlordane	ND		ug/kg	2.40	0.670	1	A
trans-Chlordane	ND		ug/kg	2.40	0.634	1	A
Chlordane	ND		ug/kg	15.6	6.37	1	A

Project Name: 300 W. 122ND ST.**Lab Number:** L1851440**Project Number:** 170500202**Report Date:** 12/21/18**SAMPLE RESULTS**

Lab ID: L1851440-01

Date Collected: 12/13/18 08:04

Client ID: EP01_9_121318

Date Received: 12/13/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	91		30-150	B
2,4,5,6-Tetrachloro-m-xylene	110		30-150	A
Decachlorobiphenyl	75		30-150	A

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-01
 Client ID: EP01_9_121318
 Sample Location: NY, NY

Date Collected: 12/13/18 08:04
 Date Received: 12/13/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/18/18 15:53
 Analyst: DGM
 Percent Solids: 82%
 Methylation Date: 12/15/18 20:28

Extraction Method: EPA 8151A
 Extraction Date: 12/15/18 02:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	198	12.5	1	B
2,4,5-T	ND		ug/kg	198	6.13	1	B
2,4,5-TP (Silvex)	ND		ug/kg	198	5.26	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	149		30-150	A
DCAA	99		30-150	B

Project Name: 300 W. 122ND ST.**Lab Number:** L1851440**Project Number:** 170500202**Report Date:** 12/21/18**SAMPLE RESULTS**

Lab ID: L1851440-02
 Client ID: EP01_10.5_121318
 Sample Location: NY, NY

Date Collected: 12/13/18 08:00
 Date Received: 12/13/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 12/18/18 11:06
 Analyst: KB
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 12/14/18 19:01
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.342	1	A
Lindane	ND		ug/kg	0.728	0.326	1	A
Alpha-BHC	ND		ug/kg	0.728	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.663	1	A
Heptachlor	ND		ug/kg	0.874	0.392	1	A
Aldrin	ND		ug/kg	1.75	0.616	1	A
Heptachlor epoxide	ND		ug/kg	3.28	0.984	1	A
Endrin	ND		ug/kg	0.728	0.299	1	A
Endrin aldehyde	ND		ug/kg	2.18	0.765	1	A
Endrin ketone	ND		ug/kg	1.75	0.450	1	A
Dieldrin	ND		ug/kg	1.09	0.546	1	A
4,4'-DDE	ND		ug/kg	1.75	0.404	1	A
4,4'-DDD	1.42	JIP	ug/kg	1.75	0.624	1	B
4,4'-DDT	ND		ug/kg	3.28	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.413	1	A
Endosulfan II	ND		ug/kg	1.75	0.584	1	A
Endosulfan sulfate	ND		ug/kg	0.728	0.347	1	A
Methoxychlor	ND		ug/kg	3.28	1.02	1	A
Toxaphene	ND		ug/kg	32.8	9.18	1	A
cis-Chlordane	ND		ug/kg	2.18	0.609	1	A
trans-Chlordane	ND		ug/kg	2.18	0.577	1	A
Chlordane	ND		ug/kg	14.2	5.79	1	A

Project Name: 300 W. 122ND ST.**Lab Number:** L1851440**Project Number:** 170500202**Report Date:** 12/21/18**SAMPLE RESULTS**

Lab ID: L1851440-02

Date Collected: 12/13/18 08:00

Client ID: EP01_10.5_121318

Date Received: 12/13/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	110		30-150	B
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	77		30-150	A

Project Name: 300 W. 122ND ST.**Lab Number:** L1851440**Project Number:** 170500202**Report Date:** 12/21/18**SAMPLE RESULTS**

Lab ID: L1851440-02
 Client ID: EP01_10.5_121318
 Sample Location: NY, NY

Date Collected: 12/13/18 08:00
 Date Received: 12/13/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/20/18 20:33
 Analyst: KEG
 Percent Solids: 87%
 Methylation Date: 12/20/18 09:33

Extraction Method: EPA 8151A
 Extraction Date: 12/19/18 18:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	186	11.8	1	A
2,4,5-T	ND		ug/kg	186	5.78	1	A
2,4,5-TP (Silvex)	ND		ug/kg	186	4.96	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	118		30-150	A
DCAA	95		30-150	B

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/16/18 19:09
Analyst: SL

Extraction Method: EPA 3546
Extraction Date: 12/14/18 14:17
Cleanup Method: EPA 3620B
Cleanup Date: 12/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1189549-1						
Delta-BHC	ND		ug/kg	1.52	0.299	A
Lindane	ND		ug/kg	0.636	0.284	A
Alpha-BHC	ND		ug/kg	0.636	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.578	A
Heptachlor	ND		ug/kg	0.763	0.342	A
Aldrin	ND		ug/kg	1.52	0.537	A
Heptachlor epoxide	ND		ug/kg	2.86	0.858	A
Endrin	ND		ug/kg	0.636	0.261	A
Endrin aldehyde	ND		ug/kg	1.91	0.668	A
Endrin ketone	ND		ug/kg	1.52	0.393	A
Dieldrin	ND		ug/kg	0.954	0.477	A
4,4'-DDE	ND		ug/kg	1.52	0.353	A
4,4'-DDD	ND		ug/kg	1.52	0.544	A
4,4'-DDT	ND		ug/kg	2.86	1.23	A
Endosulfan I	ND		ug/kg	1.52	0.360	A
Endosulfan II	ND		ug/kg	1.52	0.510	A
Endosulfan sulfate	ND		ug/kg	0.636	0.303	A
Methoxychlor	ND		ug/kg	2.86	0.890	A
Toxaphene	ND		ug/kg	28.6	8.01	A
cis-Chlordane	ND		ug/kg	1.91	0.531	A
trans-Chlordane	ND		ug/kg	1.91	0.503	A
Chlordane	ND		ug/kg	12.4	5.05	A

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 12/16/18 19:09
 Analyst: SL

Extraction Method: EPA 3546
 Extraction Date: 12/14/18 14:17
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1189549-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	89		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	91		30-150	A

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/18/18 11:29
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 12/15/18 02:26

Methylation Date: 12/15/18 20:28

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1189732-1						
2,4-D	ND		ug/kg	163	10.3	B
2,4,5-T	ND		ug/kg	163	5.06	B
2,4,5-TP (Silvex)	ND		ug/kg	163	4.34	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	103		30-150	A
DCAA	93		30-150	B

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
 Analytical Date: 12/20/18 11:41
 Analyst: DGM

Extraction Method: EPA 8151A
 Extraction Date: 12/19/18 18:31

Methylation Date: 12/20/18 09:33

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 02 Batch: WG1191315-1						
2,4-D	ND		ug/kg	162	10.2	B
2,4,5-T	ND		ug/kg	162	5.02	B
2,4,5-TP (Silvex)	ND		ug/kg	162	4.31	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	116		30-150	A
DCAA	95		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1189549-2 WG1189549-3									
Delta-BHC	87		82		30-150	6		30	A
Lindane	87		83		30-150	5		30	A
Alpha-BHC	93		90		30-150	3		30	A
Beta-BHC	81		76		30-150	6		30	A
Heptachlor	91		87		30-150	4		30	A
Aldrin	81		77		30-150	5		30	A
Heptachlor epoxide	91		87		30-150	4		30	A
Endrin	90		88		30-150	2		30	A
Endrin aldehyde	50		46		30-150	8		30	A
Endrin ketone	74		70		30-150	6		30	A
Dieldrin	94		90		30-150	4		30	A
4,4'-DDE	75		76		30-150	1		30	A
4,4'-DDD	88		83		30-150	6		30	A
4,4'-DDT	94		91		30-150	3		30	A
Endosulfan I	80		76		30-150	5		30	A
Endosulfan II	81		77		30-150	5		30	A
Endosulfan sulfate	53		46		30-150	14		30	A
Methoxychlor	97		92		30-150	5		30	A
cis-Chlordane	67		64		30-150	5		30	A
trans-Chlordane	69		56		30-150	21		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1189549-2 WG1189549-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		76		30-150	B
Decachlorobiphenyl	87		88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		66		30-150	A
Decachlorobiphenyl	81		90		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1189732-2 WG1189732-3									
2,4-D	89		95		30-150	7		30	B
2,4,5-T	88		93		30-150	6		30	B
2,4,5-TP (Silvex)	84		79		30-150	6		30	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	93		101		30-150	A
DCAA	95		106		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1191315-2 WG1191315-3									
2,4-D	100		116		30-150	15		30	B
2,4,5-T	94		105		30-150	11		30	B
2,4,5-TP (Silvex)	89		99		30-150	11		30	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	102		117		30-150	A
DCAA	90		100		30-150	B

METALS

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-01
 Client ID: EP01_9_121318
 Sample Location: NY, NY

Date Collected: 12/13/18 08:04
 Date Received: 12/13/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6650		mg/kg	9.46	2.55	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Antimony, Total	0.445	J	mg/kg	4.73	0.360	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Arsenic, Total	1.25		mg/kg	0.946	0.197	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Barium, Total	44.0		mg/kg	0.946	0.165	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Beryllium, Total	0.397	J	mg/kg	0.473	0.031	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Cadmium, Total	0.132	J	mg/kg	0.946	0.093	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Calcium, Total	647		mg/kg	9.46	3.31	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Chromium, Total	13.6		mg/kg	0.946	0.091	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Cobalt, Total	5.02		mg/kg	1.89	0.157	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Copper, Total	9.50		mg/kg	0.946	0.244	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Iron, Total	9470		mg/kg	4.73	0.854	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Lead, Total	7.53		mg/kg	4.73	0.254	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Magnesium, Total	1500		mg/kg	9.46	1.46	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Manganese, Total	555		mg/kg	0.946	0.150	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.077	0.016	1	12/18/18 05:30	12/18/18 19:41	EPA 7471B	1,7471B	EA
Nickel, Total	9.75		mg/kg	2.36	0.229	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Potassium, Total	332		mg/kg	236	13.6	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.89	0.244	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.946	0.268	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Sodium, Total	55.7	J	mg/kg	189	2.98	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.89	0.298	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Vanadium, Total	16.2		mg/kg	0.946	0.192	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
Zinc, Total	14.8		mg/kg	4.73	0.277	2	12/18/18 20:00	12/19/18 23:03	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	14		mg/kg	0.98	0.98	1		12/19/18 23:03	NA	107,-	



Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-02
 Client ID: EP01_10.5_121318
 Sample Location: NY, NY

Date Collected: 12/13/18 08:00
 Date Received: 12/13/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5960		mg/kg	8.79	2.37	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Antimony, Total	0.685	J	mg/kg	4.39	0.334	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Arsenic, Total	1.39		mg/kg	0.879	0.183	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Barium, Total	53.5		mg/kg	0.879	0.153	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Beryllium, Total	0.413	J	mg/kg	0.439	0.029	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Cadmium, Total	0.193	J	mg/kg	0.879	0.086	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Calcium, Total	943		mg/kg	8.79	3.08	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Chromium, Total	15.8		mg/kg	0.879	0.084	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Cobalt, Total	8.07		mg/kg	1.76	0.146	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Copper, Total	25.0		mg/kg	0.879	0.227	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Iron, Total	13000		mg/kg	4.39	0.794	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Lead, Total	8.75		mg/kg	4.39	0.236	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Magnesium, Total	3180		mg/kg	8.79	1.35	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Manganese, Total	320		mg/kg	0.879	0.140	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Mercury, Total	0.022	J	mg/kg	0.072	0.015	1	12/18/18 05:30	12/18/18 19:43	EPA 7471B	1,7471B	EA
Nickel, Total	12.4		mg/kg	2.20	0.213	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Potassium, Total	1520		mg/kg	220	12.6	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.76	0.227	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.879	0.249	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Sodium, Total	123	J	mg/kg	176	2.77	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.76	0.277	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Vanadium, Total	24.0		mg/kg	0.879	0.178	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
Zinc, Total	23.6		mg/kg	4.39	0.257	2	12/18/18 20:00	12/19/18 23:08	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	16		mg/kg	0.92	0.92	1		12/19/18 23:08	NA	107,-	



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

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): 01-02 Batch: WG1190450-1									
Mercury, Total	ND	mg/kg	0.083	0.018	1	12/18/18 05:30	12/18/18 11:57	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1190821-1									
Aluminum, Total	ND	mg/kg	4.00	1.08	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Antimony, Total	ND	mg/kg	2.00	0.152	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Arsenic, Total	ND	mg/kg	0.400	0.083	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Barium, Total	ND	mg/kg	0.400	0.070	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Beryllium, Total	ND	mg/kg	0.200	0.013	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Cadmium, Total	ND	mg/kg	0.400	0.039	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Calcium, Total	ND	mg/kg	4.00	1.40	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Chromium, Total	ND	mg/kg	0.400	0.038	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Cobalt, Total	ND	mg/kg	0.800	0.066	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Copper, Total	ND	mg/kg	0.400	0.103	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Iron, Total	ND	mg/kg	2.00	0.361	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Lead, Total	ND	mg/kg	2.00	0.107	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Magnesium, Total	ND	mg/kg	4.00	0.616	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Manganese, Total	ND	mg/kg	0.400	0.064	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Nickel, Total	ND	mg/kg	1.00	0.097	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Potassium, Total	ND	mg/kg	100	5.76	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Selenium, Total	ND	mg/kg	0.800	0.103	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Silver, Total	ND	mg/kg	0.400	0.113	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Sodium, Total	ND	mg/kg	80.0	1.26	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Thallium, Total	ND	mg/kg	0.800	0.126	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Vanadium, Total	ND	mg/kg	0.400	0.081	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB
Zinc, Total	ND	mg/kg	2.00	0.117	1	12/18/18 20:00	12/19/18 21:03	1,6010D	AB

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1190450-2 SRM Lot Number: D102-540								
Mercury, Total	85		-		65-134	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1190821-2 SRM Lot Number: D102-540					
Aluminum, Total	73	-	49-150	-	
Antimony, Total	159	-	1-199	-	
Arsenic, Total	101	-	83-117	-	
Barium, Total	98	-	83-118	-	
Beryllium, Total	92	-	83-116	-	
Cadmium, Total	93	-	83-118	-	
Calcium, Total	92	-	82-118	-	
Chromium, Total	97	-	83-117	-	
Cobalt, Total	96	-	84-116	-	
Copper, Total	99	-	84-116	-	
Iron, Total	94	-	61-139	-	
Lead, Total	97	-	82-118	-	
Magnesium, Total	91	-	76-124	-	
Manganese, Total	92	-	82-118	-	
Nickel, Total	97	-	83-117	-	
Potassium, Total	87	-	70-130	-	
Selenium, Total	98	-	79-121	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	105	-	74-126	-	
Thallium, Total	96	-	81-119	-	
Vanadium, Total	95	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1851440

Report Date: 12/21/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1190821-2 SRM Lot Number: D102-540					
Zinc, Total	95	-	81-118	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1190450-3 WG1190450-4 QC Sample: L1850904-01 Client ID: MS Sample												
Mercury, Total	0.062J	0.154	0.278	180	Q	0.307	199	Q	80-120	10		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits			
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1190821-3 WG1190821-4 QC Sample: L1851425-04 Client ID: MS Sample												
Aluminum, Total	2890	248	3450	226	Q	2800	0	Q	75-125	21	Q	20
Antimony, Total	8.14	61.9	66.2	94		65.9	94		75-125	0		20
Arsenic, Total	23.6	14.8	38.9	103		32.9	63	Q	75-125	17		20
Barium, Total	69.4	248	307	96		309	97		75-125	1		20
Beryllium, Total	0.500	6.19	6.23	92		5.93	88		75-125	5		20
Cadmium, Total	0.995	6.31	6.56	88		6.11	81		75-125	7		20
Calcium, Total	7280	1240	15100	632	Q	72900	5320	Q	75-125	131	Q	20
Chromium, Total	10.3	24.8	32.0	88		28.6	74	Q	75-125	11		20
Cobalt, Total	8.85	61.9	64.9	90		62.2	86		75-125	4		20
Copper, Total	138	31	172	110		133	0	Q	75-125	26	Q	20
Iron, Total	39600	124	41400	1450	Q	29200	0	Q	75-125	35	Q	20
Lead, Total	135	63.1	176	65	Q	141	10	Q	75-125	22	Q	20
Magnesium, Total	2660	1240	7780	414	Q	45100	3440	Q	75-125	141	Q	20
Manganese, Total	701	61.9	1090	628	Q	1390	1120	Q	75-125	24	Q	20
Nickel, Total	32.1	61.9	87.5	89		78.2	75		75-125	11		20
Potassium, Total	437	1240	1760	107		1920	120		75-125	9		20
Selenium, Total	0.880J	14.8	14.7	99		15.5	105		75-125	5		20
Silver, Total	ND	37.1	36.8	99		39.0	105		75-125	6		20
Sodium, Total	189	1240	1530	108		1680	121		75-125	9		20
Thallium, Total	0.615J	14.8	12.2	82		11.0	74	Q	75-125	10		20
Vanadium, Total	15.3	61.9	71.6	91		68.1	86		75-125	5		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1190821-3 WG1190821-4 QC Sample: L1851425-04 Client ID: MS Sample									
Zinc, Total	224	61.9	278	87	219	0	Q 75-125	24	Q 20

INORGANICS & MISCELLANEOUS

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-01
Client ID: EP01_9_121318
Sample Location: NY, NY

Date Collected: 12/13/18 08:04
Date Received: 12/13/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.0		%	0.100	NA	1	-	12/16/18 22:06	121,2540G	CG
Cyanide, Total	ND		mg/kg	1.2	0.25	1	12/14/18 22:10	12/17/18 13:08	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.976	0.195	1	12/14/18 18:50	12/17/18 14:16	1,7196A	NH



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

SAMPLE RESULTS

Lab ID: L1851440-02
Client ID: EP01_10.5_121318
Sample Location: NY, NY

Date Collected: 12/13/18 08:00
Date Received: 12/13/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	12/16/18 22:06	121,2540G	CG
Cyanide, Total	ND		mg/kg	1.1	0.23	1	12/14/18 22:10	12/17/18 13:13	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.917	0.183	1	12/14/18 18:50	12/17/18 14:16	1,7196A	NH



Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

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): 01-02 Batch: WG1189483-1										
Cyanide, Total	ND		mg/kg	0.83	0.18	1	12/14/18 22:10	12/17/18 12:48	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1189704-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	12/14/18 18:50	12/17/18 14:16	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1189483-2 WG1189483-3								
Cyanide, Total	81		75	Q	80-120	15		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1189704-2								
Chromium, Hexavalent	79	Q	-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1851440

Project Number: 170500202

Report Date: 12/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1189483-4 WG1189483-5 QC Sample: L1851440-01 Client ID: EP01_9_121318												
Cyanide, Total	ND	12	10	86		12	100		75-125	18		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1189704-4 QC Sample: L1851440-02 Client ID: EP01_10.5_121318												
Chromium, Hexavalent	ND	1450	1330	92		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1851440

Report Date: 12/21/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1189704-6 QC Sample: L1851440-02 Client ID: EP01_10.5_121318						
Chromium, Hexavalent	ND	0.275J	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1190029-1 QC Sample: L1851446-07 Client ID: DUP Sample						
Solids, Total	85.8	85.8	%	0		20

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Serial_No:12211816:45
Lab Number: L1851440
Report Date: 12/21/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1851440-01A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L1851440-01B	Vial water preserved	A	NA		3.5	Y	Absent	14-DEC-18 06:21	NYTCL-8260HLW(14)
L1851440-01C	Vial water preserved	A	NA		3.5	Y	Absent	14-DEC-18 06:21	NYTCL-8260HLW(14)
L1851440-01D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L1851440-01E	Glass 60mL/2oz unpreserved	A	NA		3.5	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),TRICR-CALC(30),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)
L1851440-01F	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		HEXCR-7196(30)
L1851440-01G	Glass 500ml/16oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1851440-02A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L1851440-02B	Vial water preserved	A	NA		3.5	Y	Absent	14-DEC-18 06:21	NYTCL-8260HLW(14)
L1851440-02C	Vial water preserved	A	NA		3.5	Y	Absent	14-DEC-18 06:21	NYTCL-8260HLW(14)
L1851440-02D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L1851440-02E	Glass 60mL/2oz unpreserved	A	NA		3.5	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),TRICR-CALC(30),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)
L1851440-02F	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		HEXCR-7196(30)
L1851440-02G	Glass 500ml/16oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)

*Values in parentheses indicate holding time in days



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

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 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 exceedances 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: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1851440
Report Date: 12/21/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK 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>	Date Rec'd in Lab <u>12/14/18</u>	ALPHA Job # <u>61851440</u>						
		of <u>1</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		Deliverables		Billing Information				
Client Information		Project Name: <u>300 W. 122nd St.</u>		<input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		<input checked="" type="checkbox"/> Same as Client Info PO #				
Client: <u>LANGAN, DPC</u>		Project Location: <u>NY, NY</u>		Regulatory Requirement		Disposal Site Information				
Address: <u>360 W. 31st St</u> <u>NY, NY</u>		Project # <u>170500202</u>								
Project Manager: <u>Greg Wyka</u>		ALPHAQuote #:		<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:				
Phone:		Turn-Around Time:								
Fax:		Standard <input checked="" type="checkbox"/>		Due Date:		Disposal Facility:				
Email: <u>G.WYKA@LANGAN.COM</u>		Rush (only if pre approved) <input type="checkbox"/>		# of Days:		<input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:				
These samples have been previously analyzed by Alpha <input type="checkbox"/>				ANALYSIS				Sample Filtration		
Other project specific requirements/comments:				Part 375 / TCL VOCs SVOCs PCBs Pesticides Metals + Hg spec. + base/trace chrome				<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		Total Bottles
Please specify Metals or TAL.										
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Sample Specific Comments				
		Date	Time							
<u>51440-c1</u>	<u>EP01-9-121318</u>	<u>12/13</u>	<u>0804</u>	<u>SOIL</u>	<u>AS</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>02</u>	<u>EP01-10.5121318</u>	<u>↓</u>	<u>0800</u>	<u>↓</u>	<u>↓</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
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		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.)		
						Preservative				
		Relinquished By:		Date/Time	Received By:		Date/Time			
		<u>[Signature]</u>		<u>12/13/18 1600</u>	<u>[Signature]</u>		<u>12/13/18 1600</u>			
		<u>[Signature]</u>		<u>12/13/18 1925</u>	<u>[Signature]</u>		<u>12/13/18 1950</u>			
		<u>[Signature]</u>		<u>12/13/18 2357</u>	<u>[Signature]</u>		<u>12/13/18 2357</u>			



ANALYTICAL REPORT

Lab Number:	L1924375
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	06/11/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1924375-01	EP02_14_060719	SOIL	NY, NY	06/07/19 13:10	06/07/19
L1924375-02	EP02_SE_14_060719	SOIL	NY, NY	06/07/19 13:30	06/07/19
L1924375-03	EP02_SW_14_060719	SOIL	NY, NY	06/07/19 13:25	06/07/19
L1924375-04	EP02_NE_14_060719	SOIL	NY, NY	06/07/19 13:20	06/07/19
L1924375-05	EP02_NW_14_060719	SOIL	NY, NY	06/07/19 13:15	06/07/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

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.

Total Metals

L1924375-01 through -05: 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.

The WG1246599-1 Method Blank, associated with L1924375-01 through -05, has a concentration above the reporting limit for iron. Since the associated sample concentrations are greater than 10x the blank concentration for this analyte, no corrective action is required.

The WG1246599-3 MS recoveries, performed on L1924375-01, are outside the acceptance criteria for chromium (5%), magnesium (18%) and nickel (64%). A post digestion spike was performed and was within acceptance criteria.

The WG1246599-3 MS recoveries for aluminum (6%), iron (0%) and manganese (159%), performed on L1924375-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1246599-4 Laboratory Duplicate RPDs for chromium (95%), magnesium (38%) and nickel (75%), performed on L1924375-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Cyanide, Total

The WG1246196-2/-3 LCS/LCSD recoveries (69%/76%), associated with L1924375-01 through -05, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Hexavalent Chromium

The WG1246277-2 LCS recovery (77%), associated with L1924375-01 through -05, is outside our in-house

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Case Narrative (continued)

acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: 06/11/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-01
 Client ID: EP02_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:10
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/09/19 23:09
 Analyst: MV
 Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-01
 Client ID: EP02_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:10
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	9.2	J	ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.20	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-01
 Client ID: EP02_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:10
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.20	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	105		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-02
 Client ID: EP02_SE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:30
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/09/19 23:35
 Analyst: MV
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.57	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-02
 Client ID: EP02_SE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:30
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	43		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.6	0.74	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-02
Client ID: EP02_SE_14_060719
Sample Location: NY, NY

Date Collected: 06/07/19 13:30
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	92	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	104		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-03
 Client ID: EP02_SW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:25
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/10/19 00:01
 Analyst: MV
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-03
 Client ID: EP02_SW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:25
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	29		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.79	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-03
Client ID: EP02_SW_14_060719
Sample Location: NY, NY

Date Collected: 06/07/19 13:25
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	97	43.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.22	1
p-Ethyltoluene	ND		ug/kg	2.4	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	106		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-04
 Client ID: EP02_NE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:20
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/10/19 00:27
 Analyst: MV
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.23	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.81	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.63	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.3	0.68	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-04
 Client ID: EP02_NE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:20
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	0.46	J	ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.65	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	75		ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.3	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.7	0.76	1
Acrylonitrile	ND		ug/kg	4.7	1.3	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-04
Client ID: EP02_NE_14_060719
Sample Location: NY, NY

Date Collected: 06/07/19 13:20
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	93	41.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.21	1
p-Ethyltoluene	ND		ug/kg	2.3	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-05
 Client ID: EP02_NW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:15
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/10/19 00:53
 Analyst: MV
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.79	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-05
 Client ID: EP02_NW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:15
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	1
Methyl tert butyl ether	0.32	J	ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	62		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.74	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-05
 Client ID: EP02_NW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:15
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	90	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	106		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/09/19 17:07
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1246390-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	1.3	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/09/19 17:07
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1246390-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 06/09/19 17:07
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1246390-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1246390-3 WG1246390-4								
Methylene chloride	94		98		70-130	4		30
1,1-Dichloroethane	98		99		70-130	1		30
Chloroform	110		110		70-130	0		30
Carbon tetrachloride	119		122		70-130	2		30
1,2-Dichloropropane	96		96		70-130	0		30
Dibromochloromethane	110		112		70-130	2		30
1,1,2-Trichloroethane	95		97		70-130	2		30
Tetrachloroethene	104		104		70-130	0		30
Chlorobenzene	102		103		70-130	1		30
Trichlorofluoromethane	94		93		70-139	1		30
1,2-Dichloroethane	107		109		70-130	2		30
1,1,1-Trichloroethane	115		116		70-130	1		30
Bromodichloromethane	107		110		70-130	3		30
trans-1,3-Dichloropropene	104		105		70-130	1		30
cis-1,3-Dichloropropene	105		105		70-130	0		30
1,1-Dichloropropene	106		107		70-130	1		30
Bromoform	106		104		70-130	2		30
1,1,2,2-Tetrachloroethane	88		88		70-130	0		30
Benzene	100		101		70-130	1		30
Toluene	101		102		70-130	1		30
Ethylbenzene	103		104		70-130	1		30
Chloromethane	81		81		52-130	0		30
Bromomethane	93		91		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1246390-3 WG1246390-4								
Vinyl chloride	76		75		67-130	1		30
Chloroethane	62		61		50-151	2		30
1,1-Dichloroethene	97		96		65-135	1		30
trans-1,2-Dichloroethene	99		99		70-130	0		30
Trichloroethene	107		107		70-130	0		30
1,2-Dichlorobenzene	100		102		70-130	2		30
1,3-Dichlorobenzene	102		103		70-130	1		30
1,4-Dichlorobenzene	100		102		70-130	2		30
Methyl tert butyl ether	104		105		66-130	1		30
p/m-Xylene	101		102		70-130	1		30
o-Xylene	101		102		70-130	1		30
cis-1,2-Dichloroethene	99		100		70-130	1		30
Dibromomethane	103		104		70-130	1		30
Styrene	98		101		70-130	3		30
Dichlorodifluoromethane	120		118		30-146	2		30
Acetone	77		79		54-140	3		30
Carbon disulfide	96		96		59-130	0		30
2-Butanone	70		74		70-130	6		30
Vinyl acetate	84		84		70-130	0		30
4-Methyl-2-pentanone	86		85		70-130	1		30
1,2,3-Trichloropropane	90		91		68-130	1		30
2-Hexanone	74		74		70-130	0		30
Bromochloromethane	105		109		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1246390-3 WG1246390-4								
2,2-Dichloropropane	116		116		70-130	0		30
1,2-Dibromoethane	100		104		70-130	4		30
1,3-Dichloropropane	98		100		69-130	2		30
1,1,1,2-Tetrachloroethane	110		111		70-130	1		30
Bromobenzene	101		102		70-130	1		30
n-Butylbenzene	101		102		70-130	1		30
sec-Butylbenzene	104		104		70-130	0		30
tert-Butylbenzene	107		107		70-130	0		30
o-Chlorotoluene	88		90		70-130	2		30
p-Chlorotoluene	105		105		70-130	0		30
1,2-Dibromo-3-chloropropane	100		97		68-130	3		30
Hexachlorobutadiene	126		127		67-130	1		30
Isopropylbenzene	105		104		70-130	1		30
p-Isopropyltoluene	107		107		70-130	0		30
Naphthalene	97		98		70-130	1		30
Acrylonitrile	80		79		70-130	1		30
n-Propylbenzene	101		102		70-130	1		30
1,2,3-Trichlorobenzene	102		103		70-130	1		30
1,2,4-Trichlorobenzene	109		108		70-130	1		30
1,3,5-Trimethylbenzene	107		107		70-130	0		30
1,2,4-Trimethylbenzene	106		105		70-130	1		30
1,4-Dioxane	90		91		65-136	1		30
p-Diethylbenzene	106		106		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1924375

Report Date: 06/11/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1246390-3 WG1246390-4								
p-Ethyltoluene	105		104		70-130	1		30
1,2,4,5-Tetramethylbenzene	107		107		70-130	0		30
Ethyl ether	96		95		67-130	1		30
trans-1,4-Dichloro-2-butene	91		92		70-130	1		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	108		106		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	108		105		70-130
Dibromofluoromethane	105		104		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-01
 Client ID: EP02_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:10
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/09/19 16:33
 Analyst: EK
 Percent Solids: 96%

Extraction Method: EPA 3546
 Extraction Date: 06/08/19 00:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	20	J	ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	150	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-01
 Client ID: EP02_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:10
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	21	J	ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	79.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	27.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-01
Client ID: EP02_14_060719
Sample Location: NY, NY

Date Collected: 06/07/19 13:10
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	16.	1
1,4-Dioxane	ND		ug/kg	26	7.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	103		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	109		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-02
 Client ID: EP02_SE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:30
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/09/19 16:58
 Analyst: EK
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 06/08/19 00:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	31.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-02
 Client ID: EP02_SE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:30
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	72.	1
Dibenzofuran	ND		ug/kg	180	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-02
 Client ID: EP02_SE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:30
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	92		10-120
Nitrobenzene-d5	110		23-120
2-Fluorobiphenyl	108		30-120
2,4,6-Tribromophenol	111		10-136
4-Terphenyl-d14	115		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-03
 Client ID: EP02_SW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:25
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/09/19 17:24
 Analyst: EK
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 06/08/19 00:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	31.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	46.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	60.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-03
 Client ID: EP02_SW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:25
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	72.	1
Dibenzofuran	ND		ug/kg	180	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-03
 Client ID: EP02_SW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:25
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	97		25-120
Phenol-d6	102		10-120
Nitrobenzene-d5	114		23-120
2-Fluorobiphenyl	117		30-120
2,4,6-Tribromophenol	125		10-136
4-Terphenyl-d14	126	Q	18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-04
 Client ID: EP02_NE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:20
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/09/19 17:49
 Analyst: EK
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 06/08/19 00:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	150	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-04
 Client ID: EP02_NE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:20
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND ST.**Lab Number:** L1924375**Project Number:** 170500202**Report Date:** 06/11/19**SAMPLE RESULTS**

Lab ID: L1924375-04
 Client ID: EP02_NE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:20
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	99		10-120
Nitrobenzene-d5	109		23-120
2-Fluorobiphenyl	112		30-120
2,4,6-Tribromophenol	128		10-136
4-Terphenyl-d14	123	Q	18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-05
 Client ID: EP02_NW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:15
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/09/19 18:14
 Analyst: EK
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 06/08/19 00:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-05
 Client ID: EP02_NW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:15
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND ST.**Lab Number:** L1924375**Project Number:** 170500202**Report Date:** 06/11/19**SAMPLE RESULTS**

Lab ID: L1924375-05
 Client ID: EP02_NW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:15
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	99		30-120
2,4,6-Tribromophenol	110		10-136
4-Terphenyl-d14	109		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/09/19 15:17
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/07/19 23:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1246032-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 06/09/19 15:17
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/07/19 23:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1246032-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 06/09/19 15:17
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/07/19 23:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1246032-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	77		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1246032-2 WG1246032-3								
Acenaphthene	82		88		31-137	7		50
1,2,4-Trichlorobenzene	82		88		38-107	7		50
Hexachlorobenzene	87		94		40-140	8		50
Bis(2-chloroethyl)ether	80		86		40-140	7		50
2-Chloronaphthalene	85		91		40-140	7		50
1,2-Dichlorobenzene	76		81		40-140	6		50
1,3-Dichlorobenzene	74		79		40-140	7		50
1,4-Dichlorobenzene	75		80		28-104	6		50
3,3'-Dichlorobenzidine	66		71		40-140	7		50
2,4-Dinitrotoluene	99		106		40-132	7		50
2,6-Dinitrotoluene	102		109		40-140	7		50
Fluoranthene	87		94		40-140	8		50
4-Chlorophenyl phenyl ether	83		89		40-140	7		50
4-Bromophenyl phenyl ether	88		94		40-140	7		50
Bis(2-chloroisopropyl)ether	82		88		40-140	7		50
Bis(2-chloroethoxy)methane	86		93		40-117	8		50
Hexachlorobutadiene	81		85		40-140	5		50
Hexachlorocyclopentadiene	46		50		40-140	8		50
Hexachloroethane	77		82		40-140	6		50
Isophorone	88		95		40-140	8		50
Naphthalene	80		84		40-140	5		50
Nitrobenzene	87		92		40-140	6		50
NDPA/DPA	87		93		36-157	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1246032-2 WG1246032-3								
n-Nitrosodi-n-propylamine	89		95		32-121	7		50
Bis(2-ethylhexyl)phthalate	89		98		40-140	10		50
Butyl benzyl phthalate	98		108		40-140	10		50
Di-n-butylphthalate	90		99		40-140	10		50
Di-n-octylphthalate	97		107		40-140	10		50
Diethyl phthalate	86		94		40-140	9		50
Dimethyl phthalate	90		98		40-140	9		50
Benzo(a)anthracene	84		90		40-140	7		50
Benzo(a)pyrene	88		93		40-140	6		50
Benzo(b)fluoranthene	88		93		40-140	6		50
Benzo(k)fluoranthene	87		94		40-140	8		50
Chrysene	82		88		40-140	7		50
Acenaphthylene	89		96		40-140	8		50
Anthracene	85		91		40-140	7		50
Benzo(ghi)perylene	85		92		40-140	8		50
Fluorene	86		91		40-140	6		50
Phenanthrene	82		87		40-140	6		50
Dibenzo(a,h)anthracene	92		99		40-140	7		50
Indeno(1,2,3-cd)pyrene	80		86		40-140	7		50
Pyrene	87		94		35-142	8		50
Biphenyl	81		87		54-104	7		50
4-Chloroaniline	77		82		40-140	6		50
2-Nitroaniline	99		106		47-134	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1246032-2 WG1246032-3								
3-Nitroaniline	67		70		26-129	4		50
4-Nitroaniline	85		92		41-125	8		50
Dibenzofuran	84		90		40-140	7		50
2-Methylnaphthalene	83		88		40-140	6		50
1,2,4,5-Tetrachlorobenzene	80		83		40-117	4		50
Acetophenone	79		84		14-144	6		50
2,4,6-Trichlorophenol	95		102		30-130	7		50
p-Chloro-m-cresol	91		99		26-103	8		50
2-Chlorophenol	83		89		25-102	7		50
2,4-Dichlorophenol	92		99		30-130	7		50
2,4-Dimethylphenol	90		98		30-130	9		50
2-Nitrophenol	99		105		30-130	6		50
4-Nitrophenol	90		98		11-114	9		50
2,4-Dinitrophenol	88		99		4-130	12		50
4,6-Dinitro-o-cresol	107		118		10-130	10		50
Pentachlorophenol	87		98		17-109	12		50
Phenol	84		91	Q	26-90	8		50
2-Methylphenol	87		92		30-130.	6		50
3-Methylphenol/4-Methylphenol	91		99		30-130	8		50
2,4,5-Trichlorophenol	95		100		30-130	5		50
Benzoic Acid	37		38		10-110	3		50
Benzyl Alcohol	92		98		40-140	6		50
Carbazole	84		90		54-128	7		50

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1246032-2 WG1246032-3								
1,4-Dioxane	55		58		40-140	5		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	80		85		25-120
Phenol-d6	81		87		10-120
Nitrobenzene-d5	90		95		23-120
2-Fluorobiphenyl	88		93		30-120
2,4,6-Tribromophenol	97		106		10-136
4-Terphenyl-d14	89		97		18-120

PCBS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-01
Client ID: EP02_14_060719
Sample Location: NY, NY

Date Collected: 06/07/19 13:10
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/10/19 04:18
Analyst: AWS
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 06/08/19 02:04
Cleanup Method: EPA 3665A
Cleanup Date: 06/08/19
Cleanup Method: EPA 3660B
Cleanup Date: 06/08/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.0	3.02	1	A
Aroclor 1221	ND		ug/kg	34.0	3.40	1	A
Aroclor 1232	ND		ug/kg	34.0	7.20	1	A
Aroclor 1242	ND		ug/kg	34.0	4.58	1	A
Aroclor 1248	ND		ug/kg	34.0	5.09	1	A
Aroclor 1254	ND		ug/kg	34.0	3.72	1	A
Aroclor 1260	ND		ug/kg	34.0	6.28	1	A
Aroclor 1262	ND		ug/kg	34.0	4.31	1	A
Aroclor 1268	ND		ug/kg	34.0	3.52	1	A
PCBs, Total	ND		ug/kg	34.0	3.02	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-02
 Client ID: EP02_SE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:30
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/10/19 04:30
 Analyst: AWS
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 06/08/19 02:04
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/08/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/08/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.4	3.05	1	A
Aroclor 1221	ND		ug/kg	34.4	3.44	1	A
Aroclor 1232	ND		ug/kg	34.4	7.28	1	A
Aroclor 1242	ND		ug/kg	34.4	4.63	1	A
Aroclor 1248	ND		ug/kg	34.4	5.15	1	A
Aroclor 1254	ND		ug/kg	34.4	3.76	1	A
Aroclor 1260	ND		ug/kg	34.4	6.35	1	A
Aroclor 1262	ND		ug/kg	34.4	4.36	1	A
Aroclor 1268	ND		ug/kg	34.4	3.56	1	A
PCBs, Total	ND		ug/kg	34.4	3.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-03
 Client ID: EP02_SW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:25
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/10/19 04:42
 Analyst: AWS
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 06/08/19 02:04
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/08/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/08/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.3	3.05	1	A
Aroclor 1221	ND		ug/kg	34.3	3.44	1	A
Aroclor 1232	ND		ug/kg	34.3	7.28	1	A
Aroclor 1242	ND		ug/kg	34.3	4.63	1	A
Aroclor 1248	ND		ug/kg	34.3	5.15	1	A
Aroclor 1254	ND		ug/kg	34.3	3.76	1	A
Aroclor 1260	ND		ug/kg	34.3	6.34	1	A
Aroclor 1262	ND		ug/kg	34.3	4.36	1	A
Aroclor 1268	ND		ug/kg	34.3	3.56	1	A
PCBs, Total	ND		ug/kg	34.3	3.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-04
 Client ID: EP02_NE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:20
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/10/19 04:55
 Analyst: AWS
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 06/08/19 02:04
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/08/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/08/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.5	3.06	1	A
Aroclor 1221	ND		ug/kg	34.5	3.45	1	A
Aroclor 1232	ND		ug/kg	34.5	7.31	1	A
Aroclor 1242	ND		ug/kg	34.5	4.65	1	A
Aroclor 1248	ND		ug/kg	34.5	5.17	1	A
Aroclor 1254	ND		ug/kg	34.5	3.77	1	A
Aroclor 1260	ND		ug/kg	34.5	6.37	1	A
Aroclor 1262	ND		ug/kg	34.5	4.38	1	A
Aroclor 1268	ND		ug/kg	34.5	3.57	1	A
PCBs, Total	ND		ug/kg	34.5	3.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-05
 Client ID: EP02_NW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:15
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/10/19 05:07
 Analyst: AWS
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 06/08/19 02:04
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/08/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/08/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.4	2.96	1	A
Aroclor 1221	ND		ug/kg	33.4	3.34	1	A
Aroclor 1232	ND		ug/kg	33.4	7.08	1	A
Aroclor 1242	ND		ug/kg	33.4	4.50	1	A
Aroclor 1248	ND		ug/kg	33.4	5.01	1	A
Aroclor 1254	ND		ug/kg	33.4	3.65	1	A
Aroclor 1260	ND		ug/kg	33.4	6.17	1	A
Aroclor 1262	ND		ug/kg	33.4	4.24	1	A
Aroclor 1268	ND		ug/kg	33.4	3.46	1	A
PCBs, Total	ND		ug/kg	33.4	2.96	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 06/10/19 03:41
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 06/08/19 02:04
Cleanup Method: EPA 3665A
Cleanup Date: 06/08/19
Cleanup Method: EPA 3660B
Cleanup Date: 06/08/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-05 Batch: WG1246050-1						
Aroclor 1016	ND		ug/kg	32.8	2.92	A
Aroclor 1221	ND		ug/kg	32.8	3.29	A
Aroclor 1232	ND		ug/kg	32.8	6.96	A
Aroclor 1242	ND		ug/kg	32.8	4.42	A
Aroclor 1248	ND		ug/kg	32.8	4.92	A
Aroclor 1254	ND		ug/kg	32.8	3.59	A
Aroclor 1260	ND		ug/kg	32.8	6.07	A
Aroclor 1262	ND		ug/kg	32.8	4.17	A
Aroclor 1268	ND		ug/kg	32.8	3.40	A
PCBs, Total	ND		ug/kg	32.8	2.92	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	74		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1246050-2 WG1246050-3									
Aroclor 1016	103		92		40-140	11		50	A
Aroclor 1260	93		94		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		78		30-150	A
Decachlorobiphenyl	81		78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		75		30-150	B
Decachlorobiphenyl	81		78		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-01
 Client ID: EP02_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:10
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/10/19 13:05
 Analyst: DGM
 Percent Solids: 96%

Extraction Method: EPA 3546
 Extraction Date: 06/08/19 02:07
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/08/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.320	1	A
Lindane	ND		ug/kg	0.682	0.305	1	A
Alpha-BHC	ND		ug/kg	0.682	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.620	1	A
Heptachlor	ND		ug/kg	0.818	0.367	1	A
Aldrin	ND		ug/kg	1.64	0.576	1	A
Heptachlor epoxide	ND		ug/kg	3.07	0.920	1	A
Endrin	ND		ug/kg	0.682	0.280	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.716	1	A
Endrin ketone	ND		ug/kg	1.64	0.421	1	A
Dieldrin	ND		ug/kg	1.02	0.511	1	A
4,4'-DDE	ND		ug/kg	1.64	0.378	1	A
4,4'-DDD	ND		ug/kg	1.64	0.584	1	A
4,4'-DDT	ND		ug/kg	3.07	1.32	1	B
Endosulfan I	ND		ug/kg	1.64	0.387	1	A
Endosulfan II	ND		ug/kg	1.64	0.547	1	A
Endosulfan sulfate	ND		ug/kg	0.682	0.324	1	A
Methoxychlor	ND		ug/kg	3.07	0.955	1	A
Toxaphene	ND		ug/kg	30.7	8.59	1	A
cis-Chlordane	ND		ug/kg	2.04	0.570	1	A
trans-Chlordane	ND		ug/kg	2.04	0.540	1	A
Chlordane	ND		ug/kg	13.3	5.42	1	A

Project Name: 300 WEST 122ND ST.**Lab Number:** L1924375**Project Number:** 170500202**Report Date:** 06/11/19**SAMPLE RESULTS**

Lab ID: L1924375-01

Date Collected: 06/07/19 13:10

Client ID: EP02_14_060719

Date Received: 06/07/19

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	61		30-150	B
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	67		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-01
 Client ID: EP02_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:10
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/10/19 12:47
 Analyst: DGM
 Percent Solids: 96%
 Methylation Date: 06/08/19 20:07

Extraction Method: EPA 8151A
 Extraction Date: 06/08/19 01:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	173	10.9	1	A
2,4,5-T	ND		ug/kg	173	5.37	1	A
2,4,5-TP (Silvex)	ND		ug/kg	173	4.61	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	76		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-02
 Client ID: EP02_SE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:30
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/10/19 13:18
 Analyst: DGM
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 06/08/19 02:07
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/08/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.324	1	A
Lindane	ND		ug/kg	0.689	0.308	1	A
Alpha-BHC	ND		ug/kg	0.689	0.196	1	A
Beta-BHC	ND		ug/kg	1.65	0.627	1	A
Heptachlor	ND		ug/kg	0.827	0.371	1	A
Aldrin	ND		ug/kg	1.65	0.582	1	A
Heptachlor epoxide	ND		ug/kg	3.10	0.930	1	A
Endrin	ND		ug/kg	0.689	0.283	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.724	1	A
Endrin ketone	ND		ug/kg	1.65	0.426	1	A
Dieldrin	ND		ug/kg	1.03	0.517	1	A
4,4'-DDE	ND		ug/kg	1.65	0.382	1	A
4,4'-DDD	ND		ug/kg	1.65	0.590	1	A
4,4'-DDT	ND		ug/kg	3.10	1.33	1	A
Endosulfan I	ND		ug/kg	1.65	0.391	1	A
Endosulfan II	ND		ug/kg	1.65	0.553	1	A
Endosulfan sulfate	ND		ug/kg	0.689	0.328	1	A
Methoxychlor	ND		ug/kg	3.10	0.965	1	A
Toxaphene	ND		ug/kg	31.0	8.68	1	A
cis-Chlordane	ND		ug/kg	2.07	0.576	1	A
trans-Chlordane	ND		ug/kg	2.07	0.546	1	A
Chlordane	ND		ug/kg	13.4	5.48	1	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-02
 Client ID: EP02_SE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:30
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	116		30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	121		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-02
 Client ID: EP02_SE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:30
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/10/19 13:06
 Analyst: DGM
 Percent Solids: 93%
 Methylation Date: 06/08/19 20:07

Extraction Method: EPA 8151A
 Extraction Date: 06/08/19 01:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	177	11.2	1	A
2,4,5-T	ND		ug/kg	177	5.49	1	A
2,4,5-TP (Silvex)	ND		ug/kg	177	4.71	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	86		30-150	A
DCAA	76		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-03
 Client ID: EP02_SW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:25
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/10/19 13:31
 Analyst: DGM
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 06/08/19 02:07
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/08/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.325	1	A
Lindane	ND		ug/kg	0.691	0.309	1	A
Alpha-BHC	ND		ug/kg	0.691	0.196	1	A
Beta-BHC	ND		ug/kg	1.66	0.629	1	A
Heptachlor	ND		ug/kg	0.829	0.372	1	A
Aldrin	ND		ug/kg	1.66	0.584	1	A
Heptachlor epoxide	ND		ug/kg	3.11	0.933	1	A
Endrin	ND		ug/kg	0.691	0.283	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.726	1	A
Endrin ketone	ND		ug/kg	1.66	0.427	1	A
Dieldrin	ND		ug/kg	1.04	0.518	1	A
4,4'-DDE	ND		ug/kg	1.66	0.384	1	A
4,4'-DDD	ND		ug/kg	1.66	0.592	1	A
4,4'-DDT	ND		ug/kg	3.11	1.33	1	A
Endosulfan I	ND		ug/kg	1.66	0.392	1	A
Endosulfan II	ND		ug/kg	1.66	0.554	1	A
Endosulfan sulfate	ND		ug/kg	0.691	0.329	1	A
Methoxychlor	ND		ug/kg	3.11	0.967	1	A
Toxaphene	ND		ug/kg	31.1	8.71	1	A
cis-Chlordane	ND		ug/kg	2.07	0.578	1	A
trans-Chlordane	ND		ug/kg	2.07	0.547	1	A
Chlordane	ND		ug/kg	13.5	5.49	1	A

Project Name: 300 WEST 122ND ST.**Lab Number:** L1924375**Project Number:** 170500202**Report Date:** 06/11/19**SAMPLE RESULTS**

Lab ID: L1924375-03
 Client ID: EP02_SW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:25
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	121		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	128		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-03
 Client ID: EP02_SW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:25
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/10/19 13:25
 Analyst: DGM
 Percent Solids: 94%
 Methylation Date: 06/08/19 20:07

Extraction Method: EPA 8151A
 Extraction Date: 06/08/19 01:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	172	10.8	1	A
2,4,5-T	ND		ug/kg	172	5.34	1	A
2,4,5-TP (Silvex)	ND		ug/kg	172	4.58	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	86		30-150	A
DCAA	79		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-04
 Client ID: EP02_NE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:20
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/10/19 13:44
 Analyst: DGM
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 06/08/19 02:07
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/08/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.328	1	A
Lindane	ND		ug/kg	0.697	0.312	1	A
Alpha-BHC	ND		ug/kg	0.697	0.198	1	A
Beta-BHC	ND		ug/kg	1.67	0.634	1	A
Heptachlor	ND		ug/kg	0.836	0.375	1	A
Aldrin	ND		ug/kg	1.67	0.589	1	A
Heptachlor epoxide	ND		ug/kg	3.14	0.941	1	A
Endrin	ND		ug/kg	0.697	0.286	1	A
Endrin aldehyde	ND		ug/kg	2.09	0.732	1	A
Endrin ketone	ND		ug/kg	1.67	0.431	1	A
Dieldrin	ND		ug/kg	1.04	0.523	1	A
4,4'-DDE	ND		ug/kg	1.67	0.387	1	A
4,4'-DDD	ND		ug/kg	1.67	0.597	1	A
4,4'-DDT	ND		ug/kg	3.14	1.34	1	A
Endosulfan I	ND		ug/kg	1.67	0.395	1	A
Endosulfan II	ND		ug/kg	1.67	0.559	1	A
Endosulfan sulfate	ND		ug/kg	0.697	0.332	1	A
Methoxychlor	ND		ug/kg	3.14	0.976	1	A
Toxaphene	ND		ug/kg	31.4	8.78	1	A
cis-Chlordane	ND		ug/kg	2.09	0.583	1	A
trans-Chlordane	ND		ug/kg	2.09	0.552	1	A
Chlordane	ND		ug/kg	13.6	5.54	1	A

Project Name: 300 WEST 122ND ST.**Lab Number:** L1924375**Project Number:** 170500202**Report Date:** 06/11/19**SAMPLE RESULTS**

Lab ID: L1924375-04
 Client ID: EP02_NE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:20
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	109		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	115		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-04
 Client ID: EP02_NE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:20
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/10/19 13:44
 Analyst: DGM
 Percent Solids: 95%
 Methylation Date: 06/08/19 20:07

Extraction Method: EPA 8151A
 Extraction Date: 06/08/19 01:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	172	10.9	1	A
2,4,5-T	ND		ug/kg	172	5.34	1	A
2,4,5-TP (Silvex)	ND		ug/kg	172	4.58	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	73		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-05
Client ID: EP02_NW_14_060719
Sample Location: NY, NY

Date Collected: 06/07/19 13:15
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/10/19 13:57
Analyst: DGM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 06/08/19 01:06
Cleanup Method: EPA 3620B
Cleanup Date: 06/08/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.63	0.319	1	A
Lindane	ND		ug/kg	0.678	0.303	1	A
Alpha-BHC	ND		ug/kg	0.678	0.193	1	A
Beta-BHC	ND		ug/kg	1.63	0.617	1	A
Heptachlor	ND		ug/kg	0.814	0.365	1	A
Aldrin	ND		ug/kg	1.63	0.573	1	A
Heptachlor epoxide	ND		ug/kg	3.05	0.916	1	A
Endrin	ND		ug/kg	0.678	0.278	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.712	1	A
Endrin ketone	ND		ug/kg	1.63	0.419	1	A
Dieldrin	ND		ug/kg	1.02	0.509	1	A
4,4'-DDE	ND		ug/kg	1.63	0.376	1	A
4,4'-DDD	ND		ug/kg	1.63	0.581	1	A
4,4'-DDT	ND		ug/kg	3.05	1.31	1	A
Endosulfan I	ND		ug/kg	1.63	0.385	1	A
Endosulfan II	ND		ug/kg	1.63	0.544	1	A
Endosulfan sulfate	ND		ug/kg	0.678	0.323	1	A
Methoxychlor	ND		ug/kg	3.05	0.950	1	A
Toxaphene	ND		ug/kg	30.5	8.55	1	A
cis-Chlordane	ND		ug/kg	2.04	0.567	1	A
trans-Chlordane	ND		ug/kg	2.04	0.537	1	A
Chlordane	ND		ug/kg	13.2	5.39	1	A

Project Name: 300 WEST 122ND ST.**Lab Number:** L1924375**Project Number:** 170500202**Report Date:** 06/11/19**SAMPLE RESULTS**

Lab ID: L1924375-05
 Client ID: EP02_NW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:15
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	91		30-150	B
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	93		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-05
 Client ID: EP02_NW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:15
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/11/19 09:14
 Analyst: DGM
 Percent Solids: 95%
 Methylation Date: 06/08/19 20:07

Extraction Method: EPA 8151A
 Extraction Date: 06/08/19 01:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	173	10.9	1	A
2,4,5-T	ND		ug/kg	173	5.36	1	A
2,4,5-TP (Silvex)	ND		ug/kg	173	4.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	81		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/10/19 12:26
Analyst: DGM

Extraction Method: EPA 3546
Extraction Date: 06/07/19 22:07
Cleanup Method: EPA 3620B
Cleanup Date: 06/08/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1246025-1						
Delta-BHC	ND		ug/kg	1.51	0.295	A
Lindane	ND		ug/kg	0.628	0.281	A
Alpha-BHC	ND		ug/kg	0.628	0.178	A
Beta-BHC	ND		ug/kg	1.51	0.571	A
Heptachlor	ND		ug/kg	0.753	0.338	A
Aldrin	ND		ug/kg	1.51	0.530	A
Heptachlor epoxide	ND		ug/kg	2.82	0.847	A
Endrin	ND		ug/kg	0.628	0.257	A
Endrin aldehyde	ND		ug/kg	1.88	0.659	A
Endrin ketone	ND		ug/kg	1.51	0.388	A
Dieldrin	ND		ug/kg	0.942	0.471	A
4,4'-DDE	ND		ug/kg	1.51	0.348	A
4,4'-DDD	ND		ug/kg	1.51	0.537	A
4,4'-DDT	ND		ug/kg	2.82	1.21	A
Endosulfan I	ND		ug/kg	1.51	0.356	A
Endosulfan II	ND		ug/kg	1.51	0.503	A
Endosulfan sulfate	ND		ug/kg	0.628	0.299	A
Methoxychlor	ND		ug/kg	2.82	0.879	A
Toxaphene	ND		ug/kg	28.2	7.91	A
cis-Chlordane	ND		ug/kg	1.88	0.525	A
trans-Chlordane	ND		ug/kg	1.88	0.497	A
Chlordane	ND		ug/kg	12.2	4.99	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 06/10/19 12:26
Analyst: DGM

Extraction Method: EPA 3546
Extraction Date: 06/07/19 22:07
Cleanup Method: EPA 3620B
Cleanup Date: 06/08/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1246025-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	97		30-150	B
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	101		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 06/10/19 14:03
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 06/08/19 01:18

Methylation Date: 06/08/19 20:07

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1246043-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.30	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	78		30-150	A
DCAA	69		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1246025-2 WG1246025-3									
Delta-BHC	76		59		30-150	25		30	A
Lindane	75		58		30-150	26		30	A
Alpha-BHC	81		62		30-150	27		30	A
Beta-BHC	71		55		30-150	25		30	A
Heptachlor	86		72		30-150	18		30	A
Aldrin	80		61		30-150	27		30	A
Heptachlor epoxide	73		54		30-150	30		30	A
Endrin	78		61		30-150	24		30	A
Endrin aldehyde	58		48		30-150	19		30	A
Endrin ketone	66		52		30-150	24		30	A
Dieldrin	83		64		30-150	26		30	A
4,4'-DDE	79		62		30-150	24		30	A
4,4'-DDD	79		63		30-150	23		30	A
4,4'-DDT	80		64		30-150	22		30	A
Endosulfan I	74		59		30-150	23		30	A
Endosulfan II	76		60		30-150	24		30	A
Endosulfan sulfate	56		40		30-150	33	Q	30	A
Methoxychlor	87		70		30-150	22		30	A
cis-Chlordane	71		54		30-150	27		30	A
trans-Chlordane	60		45		30-150	29		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1246025-2 WG1246025-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	76		50		30-150	B
Decachlorobiphenyl	85		69		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		52		30-150	A
Decachlorobiphenyl	95		74		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1246043-2 WG1246043-3									
2,4-D	111		104		30-150	7		30	A
2,4,5-T	105		97		30-150	8		30	A
2,4,5-TP (Silvex)	99		95		30-150	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	87		82		30-150	A
DCAA	82		81		30-150	B

METALS

Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-01
 Client ID: EP02_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:10
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3560		mg/kg	8.10	2.19	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.05	0.308	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Arsenic, Total	0.843		mg/kg	0.810	0.168	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Barium, Total	20.4		mg/kg	0.810	0.141	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Beryllium, Total	0.243	J	mg/kg	0.405	0.027	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Cadmium, Total	0.146	J	mg/kg	0.810	0.079	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Calcium, Total	568		mg/kg	8.10	2.84	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Chromium, Total	23.6		mg/kg	0.810	0.078	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Cobalt, Total	3.65		mg/kg	1.62	0.134	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Copper, Total	13.0		mg/kg	0.810	0.209	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Iron, Total	6410		mg/kg	4.05	0.732	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Lead, Total	2.91	J	mg/kg	4.05	0.217	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Magnesium, Total	1690		mg/kg	8.10	1.25	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Manganese, Total	201		mg/kg	0.810	0.129	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.073	0.047	1	06/10/19 19:08	06/10/19 22:03	EPA 7471B	1,7471B	EA
Nickel, Total	19.7		mg/kg	2.02	0.196	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Potassium, Total	289		mg/kg	202	11.7	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.62	0.209	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.810	0.229	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Sodium, Total	57.5	J	mg/kg	162	2.55	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.62	0.255	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Vanadium, Total	10.1		mg/kg	0.810	0.164	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
Zinc, Total	10.1		mg/kg	4.05	0.237	2	06/10/19 17:15	06/11/19 09:56	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	23	J	mg/kg	0.84	0.84	1		06/11/19 09:56	NA	107,-	



Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-02
 Client ID: EP02_SE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:30
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6340		mg/kg	8.26	2.23	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.13	0.314	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Arsenic, Total	1.32		mg/kg	0.826	0.172	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Barium, Total	41.2		mg/kg	0.826	0.144	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Beryllium, Total	0.388	J	mg/kg	0.413	0.027	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Cadmium, Total	0.190	J	mg/kg	0.826	0.081	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Calcium, Total	708		mg/kg	8.26	2.89	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Chromium, Total	12.6		mg/kg	0.826	0.079	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Cobalt, Total	4.12		mg/kg	1.65	0.137	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Copper, Total	9.37		mg/kg	0.826	0.213	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Iron, Total	8880		mg/kg	4.13	0.746	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Lead, Total	6.18		mg/kg	4.13	0.222	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Magnesium, Total	1420		mg/kg	8.26	1.27	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Manganese, Total	346		mg/kg	0.826	0.131	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.085	0.056	1	06/10/19 19:08	06/10/19 22:05	EPA 7471B	1,7471B	EA
Nickel, Total	9.06		mg/kg	2.07	0.200	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Potassium, Total	474		mg/kg	207	11.9	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.65	0.213	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.826	0.234	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Sodium, Total	82.5	J	mg/kg	165	2.60	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.65	0.260	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Vanadium, Total	13.8		mg/kg	0.826	0.168	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
Zinc, Total	11.9		mg/kg	4.13	0.242	2	06/10/19 17:15	06/11/19 10:44	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12	J	mg/kg	0.86	0.86	1		06/11/19 10:44	NA	107,-	



Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-03
 Client ID: EP02_SW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:25
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2370		mg/kg	7.97	2.15	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	3.98	0.303	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Arsenic, Total	0.988		mg/kg	0.797	0.166	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Barium, Total	17.3		mg/kg	0.797	0.139	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Beryllium, Total	0.191	J	mg/kg	0.398	0.026	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Cadmium, Total	0.104	J	mg/kg	0.797	0.078	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Calcium, Total	502		mg/kg	7.97	2.79	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Chromium, Total	6.79		mg/kg	0.797	0.077	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Cobalt, Total	2.19		mg/kg	1.59	0.132	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Copper, Total	7.40		mg/kg	0.797	0.206	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Iron, Total	4500		mg/kg	3.98	0.720	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Lead, Total	3.66	J	mg/kg	3.98	0.214	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Magnesium, Total	750		mg/kg	7.97	1.23	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Manganese, Total	210		mg/kg	0.797	0.127	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.077	0.051	1	06/10/19 19:08	06/10/19 22:07	EPA 7471B	1,7471B	EA
Nickel, Total	5.73		mg/kg	1.99	0.193	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Potassium, Total	312		mg/kg	199	11.5	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.59	0.206	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.797	0.226	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Sodium, Total	32.3	J	mg/kg	159	2.51	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.59	0.251	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Vanadium, Total	7.46		mg/kg	0.797	0.162	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
Zinc, Total	6.38		mg/kg	3.98	0.234	2	06/10/19 17:15	06/11/19 10:49	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	6.5	J	mg/kg	0.85	0.85	1		06/11/19 10:49	NA	107,-	



Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-04
 Client ID: EP02_NE_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:20
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2840		mg/kg	8.30	2.24	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.15	0.315	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Arsenic, Total	0.606	J	mg/kg	0.830	0.173	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Barium, Total	16.8		mg/kg	0.830	0.144	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Beryllium, Total	0.191	J	mg/kg	0.415	0.027	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Cadmium, Total	0.133	J	mg/kg	0.830	0.081	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Calcium, Total	355		mg/kg	8.30	2.90	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Chromium, Total	7.73		mg/kg	0.830	0.080	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Cobalt, Total	2.35		mg/kg	1.66	0.138	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Copper, Total	7.20		mg/kg	0.830	0.214	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Iron, Total	5360		mg/kg	4.15	0.749	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Lead, Total	2.54	J	mg/kg	4.15	0.222	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Magnesium, Total	1050		mg/kg	8.30	1.28	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Manganese, Total	127		mg/kg	0.830	0.132	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.084	0.055	1	06/10/19 19:08	06/10/19 22:09	EPA 7471B	1,7471B	EA
Nickel, Total	6.40		mg/kg	2.07	0.201	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Potassium, Total	332		mg/kg	207	12.0	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.66	0.214	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.830	0.235	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Sodium, Total	49.9	J	mg/kg	166	2.61	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.66	0.261	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Vanadium, Total	7.83		mg/kg	0.830	0.168	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
Zinc, Total	7.87		mg/kg	4.15	0.243	2	06/10/19 17:15	06/11/19 10:53	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.4	J	mg/kg	0.85	0.85	1		06/11/19 10:53	NA	107,-	



Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-05
 Client ID: EP02_NW_14_060719
 Sample Location: NY, NY

Date Collected: 06/07/19 13:15
 Date Received: 06/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3040		mg/kg	8.34	2.25	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.17	0.317	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Arsenic, Total	0.776	J	mg/kg	0.834	0.174	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Barium, Total	21.0		mg/kg	0.834	0.145	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Beryllium, Total	0.184	J	mg/kg	0.417	0.028	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Cadmium, Total	0.117	J	mg/kg	0.834	0.082	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Calcium, Total	468		mg/kg	8.34	2.92	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Chromium, Total	8.47		mg/kg	0.834	0.080	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Cobalt, Total	2.70		mg/kg	1.67	0.138	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Copper, Total	8.40		mg/kg	0.834	0.215	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Iron, Total	5470		mg/kg	4.17	0.754	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Lead, Total	3.28	J	mg/kg	4.17	0.224	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Magnesium, Total	1310		mg/kg	8.34	1.28	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Manganese, Total	114		mg/kg	0.834	0.133	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.085	0.055	1	06/10/19 19:08	06/10/19 22:11	EPA 7471B	1,7471B	EA
Nickel, Total	7.72		mg/kg	2.09	0.202	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Potassium, Total	288		mg/kg	209	12.0	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.67	0.215	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.834	0.236	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Sodium, Total	47.6	J	mg/kg	167	2.63	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.67	0.263	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Vanadium, Total	8.44		mg/kg	0.834	0.169	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
Zinc, Total	6.81		mg/kg	4.17	0.244	2	06/10/19 17:15	06/11/19 10:58	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.5		mg/kg	0.84	0.84	1		06/11/19 10:58	NA	107,-	



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

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): 01-05 Batch: WG1246599-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Chromium, Total	0.084	J	mg/kg	0.400	0.038	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Iron, Total	2.80		mg/kg	2.00	0.361	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Sodium, Total	1.87	J	mg/kg	80.0	1.26	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	06/10/19 17:15	06/11/19 09:47	1,6010D	LC

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): 01-05 Batch: WG1246615-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	06/10/19 19:08	06/10/19 21:31	1,7471B	EA



Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1924375

Report Date: 06/11/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1246599-2 SRM Lot Number: D105-540								
Aluminum, Total	60		-		51-149	-		
Antimony, Total	154		-		19-249	-		
Arsenic, Total	98		-		70-130	-		
Barium, Total	84		-		75-125	-		
Beryllium, Total	88		-		75-125	-		
Cadmium, Total	92		-		75-125	-		
Calcium, Total	79		-		73-127	-		
Chromium, Total	81		-		70-130	-		
Cobalt, Total	92		-		75-125	-		
Copper, Total	91		-		75-125	-		
Iron, Total	71		-		38-162	-		
Lead, Total	89		-		71-128	-		
Magnesium, Total	76		-		63-137	-		
Manganese, Total	80		-		76-124	-		
Nickel, Total	94		-		70-131	-		
Potassium, Total	73		-		60-140	-		
Selenium, Total	96		-		63-137	-		
Silver, Total	87		-		69-131	-		
Sodium, Total	85		-		37-162	-		
Thallium, Total	90		-		68-132	-		
Vanadium, Total	84		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1924375

Report Date: 06/11/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1246599-2 SRM Lot Number: D105-540					
Zinc, Total	90	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1246615-2 SRM Lot Number: D105-540					
Mercury, Total	96	-	60-141	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1246599-3 QC Sample: L1924375-01 Client ID: EP02_14_060719												
Aluminum, Total	3560	166	3570	6	Q	-	-		75-125	-		20
Antimony, Total	ND	41.6	39.0	94		-	-		75-125	-		20
Arsenic, Total	0.843	9.98	11.0	102		-	-		75-125	-		20
Barium, Total	20.4	166	181	96		-	-		75-125	-		20
Beryllium, Total	0.243J	4.16	4.36	105		-	-		75-125	-		20
Cadmium, Total	0.146J	4.24	4.26	100		-	-		75-125	-		20
Calcium, Total	568	832	1320	90		-	-		75-125	-		20
Chromium, Total	23.6	16.6	24.4	5	Q	-	-		75-125	-		20
Cobalt, Total	3.65	41.6	41.4	91		-	-		75-125	-		20
Copper, Total	13.0	20.8	29.6	80		-	-		75-125	-		20
Iron, Total	6410	83.2	5510	0	Q	-	-		75-125	-		20
Lead, Total	2.91J	42.4	43.8	103		-	-		75-125	-		20
Magnesium, Total	1690	832	1840	18	Q	-	-		75-125	-		20
Manganese, Total	201	41.6	267	159	Q	-	-		75-125	-		20
Nickel, Total	19.7	41.6	46.2	64	Q	-	-		75-125	-		20
Potassium, Total	289	832	1160	105		-	-		75-125	-		20
Selenium, Total	ND	9.98	9.94	100		-	-		75-125	-		20
Silver, Total	ND	25	26.2	105		-	-		75-125	-		20
Sodium, Total	57.5J	832	850	102		-	-		75-125	-		20
Thallium, Total	ND	9.98	9.07	91		-	-		75-125	-		20
Vanadium, Total	10.1	41.6	49.6	95		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1246599-3 QC Sample: L1924375-01 Client ID: EP02_14_060719									
Zinc, Total	10.1	41.6	47.2	89	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1246615-3 QC Sample: L1923926-03 Client ID: MS Sample									
Mercury, Total	ND	0.147	0.153	104	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1246599-4 QC Sample: L1924375-01 Client ID: EP02_14_060719						
Aluminum, Total	3560	3250	mg/kg	9		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	0.843	0.619J	mg/kg	NC		20
Barium, Total	20.4	19.7	mg/kg	3		20
Beryllium, Total	0.243J	0.214J	mg/kg	NC		20
Cadmium, Total	0.146J	0.135J	mg/kg	NC		20
Calcium, Total	568	627	mg/kg	10		20
Chromium, Total	23.6	8.43	mg/kg	95	Q	20
Cobalt, Total	3.65	3.10	mg/kg	16		20
Copper, Total	13.0	13.0	mg/kg	0		20
Iron, Total	6410	5430	mg/kg	17		20
Lead, Total	2.91J	2.86J	mg/kg	NC		20
Magnesium, Total	1690	1150	mg/kg	38	Q	20
Manganese, Total	201	203	mg/kg	1		20
Nickel, Total	19.7	9.00	mg/kg	75	Q	20
Potassium, Total	289	339	mg/kg	16		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	57.5J	61.2J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1246599-4 QC Sample: L1924375-01 Client ID: EP02_14_060719					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	10.1	12.0	mg/kg	17	20
Zinc, Total	10.1	8.86	mg/kg	13	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1246615-4 QC Sample: L1923926-03 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/kg	NC	20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-01
Client ID: EP02_14_060719
Sample Location: NY, NY

Date Collected: 06/07/19 13:10
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.6		%	0.100	NA	1	-	06/08/19 03:04	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	06/08/19 16:15	06/10/19 11:14	1,9010C/9012B	LH
Chromium, Hexavalent	0.199	J	mg/kg	0.837	0.167	1	06/08/19 15:30	06/10/19 21:25	1,7196A	RM



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-02
Client ID: EP02_SE_14_060719
Sample Location: NY, NY

Date Collected: 06/07/19 13:30
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.0		%	0.100	NA	1	-	06/08/19 03:04	121,2540G	YA
Cyanide, Total	ND		mg/kg	0.99	0.21	1	06/08/19 16:15	06/10/19 10:48	1,9010C/9012B	LH
Chromium, Hexavalent	0.258	J	mg/kg	0.860	0.172	1	06/08/19 15:30	06/10/19 21:25	1,7196A	RM



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-03
Client ID: EP02_SW_14_060719
Sample Location: NY, NY

Date Collected: 06/07/19 13:25
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.4		%	0.100	NA	1	-	06/08/19 03:04	121,2540G	YA
Cyanide, Total	ND		mg/kg	0.98	0.21	1	06/08/19 16:15	06/10/19 10:49	1,9010C/9012B	LH
Chromium, Hexavalent	0.254	J	mg/kg	0.847	0.169	1	06/08/19 15:30	06/10/19 21:25	1,7196A	RM



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-04
Client ID: EP02_NE_14_060719
Sample Location: NY, NY

Date Collected: 06/07/19 13:20
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.5		%	0.100	NA	1	-	06/08/19 03:04	121,2540G	YA
Cyanide, Total	ND		mg/kg	0.99	0.21	1	06/08/19 16:15	06/10/19 11:15	1,9010C/9012B	LH
Chromium, Hexavalent	0.307	J	mg/kg	0.846	0.169	1	06/08/19 15:30	06/10/19 21:25	1,7196A	RM



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

SAMPLE RESULTS

Lab ID: L1924375-05
Client ID: EP02_NW_14_060719
Sample Location: NY, NY

Date Collected: 06/07/19 13:15
Date Received: 06/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.8		%	0.100	NA	1	-	06/08/19 03:04	121,2540G	YA
Cyanide, Total	ND		mg/kg	0.98	0.21	1	06/08/19 16:15	06/10/19 10:51	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.844	0.169	1	06/08/19 15:30	06/10/19 21:25	1,7196A	RM



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

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): 01-05 Batch: WG1246196-1									
Cyanide, Total	ND	mg/kg	0.99	0.21	1	06/08/19 16:15	06/10/19 10:37	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1246277-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	06/08/19 15:30	06/10/19 21:25	1,7196A	RM

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1246196-2 WG1246196-3								
Cyanide, Total	69	Q	76	Q	80-120	3		35
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1246277-2								
Chromium, Hexavalent	77	Q	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1246196-4 WG1246196-5 QC Sample: L1924529-01 Client ID: MS Sample												
Cyanide, Total	ND	12	10	84		10	87		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1246277-4 QC Sample: L1924375-05 Client ID: EP02_NW_14_060719												
Chromium, Hexavalent	ND	1180	1280	108		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1246054-1 QC Sample: L1924280-01 Client ID: DUP Sample						
Solids, Total	88.5	88.6	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1246277-6 QC Sample: L1924375-05 Client ID: EP02_NW_14_060719						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 300 WEST 122ND ST.**Lab Number:** L1924375**Project Number:** 170500202**Report Date:** 06/11/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1924375-01A	Vial MeOH preserved	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L1924375-01B	Vial water preserved	A	NA		3.9	Y	Absent	08-JUN-19 00:07	NYTCL-8260HLW(14)
L1924375-01C	Vial water preserved	A	NA		3.9	Y	Absent	08-JUN-19 00:07	NYTCL-8260HLW(14)
L1924375-01D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1924375-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	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)
L1924375-01F	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HEXCR-7196(30)
L1924375-01G	Glass 500ml/16oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),NYTCL-8081(14),NYTCL-8082(14)
L1924375-02A	Vial MeOH preserved	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L1924375-02B	Vial water preserved	A	NA		3.9	Y	Absent	08-JUN-19 00:07	NYTCL-8260HLW(14)
L1924375-02C	Vial water preserved	A	NA		3.9	Y	Absent	08-JUN-19 00:07	NYTCL-8260HLW(14)
L1924375-02D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1924375-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	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)
L1924375-02F	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HEXCR-7196(30)
L1924375-02G	Glass 500ml/16oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),NYTCL-8081(14),NYTCL-8082(14)
L1924375-03A	Vial MeOH preserved	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L1924375-03B	Vial water preserved	A	NA		3.9	Y	Absent	08-JUN-19 00:07	NYTCL-8260HLW(14)

Project Name: 300 WEST 122ND ST.

Lab Number: L1924375

Project Number: 170500202

Report Date: 06/11/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1924375-03C	Vial water preserved	A	NA		3.9	Y	Absent	08-JUN-19 00:07	NYTCL-8260HLW(14)
L1924375-03D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1924375-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	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)
L1924375-03F	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HEXCR-7196(30)
L1924375-03G	Glass 500ml/16oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),NYTCL-8081(14),NYTCL-8082(14)
L1924375-04A	Vial MeOH preserved	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L1924375-04B	Vial water preserved	A	NA		3.9	Y	Absent	08-JUN-19 00:07	NYTCL-8260HLW(14)
L1924375-04C	Vial water preserved	A	NA		3.9	Y	Absent	08-JUN-19 00:07	NYTCL-8260HLW(14)
L1924375-04D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1924375-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	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)
L1924375-04F	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HEXCR-7196(30)
L1924375-04G	Glass 500ml/16oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),NYTCL-8081(14),NYTCL-8082(14)
L1924375-05A	Vial MeOH preserved	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L1924375-05B	Vial water preserved	A	NA		3.9	Y	Absent	08-JUN-19 00:07	NYTCL-8260HLW(14)
L1924375-05C	Vial water preserved	A	NA		3.9	Y	Absent	08-JUN-19 00:07	NYTCL-8260HLW(14)
L1924375-05D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1924375-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	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)
L1924375-05F	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HEXCR-7196(30)

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Serial_No:06111916:01

Lab Number: L1924375

Report Date: 06/11/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1924375-05G	Glass 500ml/16oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),NYTCL-8081(14),NYTCL-8082(14)
L1924375-05H	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),NYTCL-8081(14),NYTCL-8082(14)

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

- 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

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1924375
Report Date: 06/11/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK 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 1	Date Rec'd in Lab 6/7/19	ALPHA Job # L1924375									
		of 1											
Westborough, MA 01561 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		Deliverables	Billing Information								
Client Information		Project Name: 300 West 122nd St		<input type="checkbox"/> ASP-A	<input checked="" type="checkbox"/> Same as Client Info								
Client: LANGAN, DPC		Project Location: NY, NY		<input type="checkbox"/> EQUIS (1 File)	PO #								
Address:		Project # 170500207		<input type="checkbox"/> Other									
Phone:		(Use Project name as Project #) <input type="checkbox"/>		Regulatory Requirement									
Fax:		Project Manager: Eneq Wyka		<input type="checkbox"/> NY TOGS	<input checked="" type="checkbox"/> NY Part 375								
Email: GWYKA@LANGAN.COM		ALPHAQuote #:		<input type="checkbox"/> AWQ Standards	<input type="checkbox"/> NY CP-51								
Turn-Around Time		Standard <input type="checkbox"/>		<input type="checkbox"/> NY Restricted Use	<input checked="" type="checkbox"/> Other TCL								
Due Date: 6/11/19		Rush (only if pre approved) <input checked="" type="checkbox"/>		<input type="checkbox"/> NY Unrestricted Use	Disposal Site Information								
# of Days: 25		NYC Sewer Discharge <input type="checkbox"/>		Please identify below location of applicable disposal facilities.									
These samples have been previously analyzed by Alpha <input type="checkbox"/>		ANALYSIS		Disposal Facility:									
Other project specific requirements/comments:		Part 375/TCL		SVOCs		PCBS		PEST/Herbs		TAL metals + total cyanide + hex/ni chromium		Sample Filtration	
												<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)	
Please specify Metals or TAL.		Date		Time		Sample Matrix		Sampler's Initials		Total Bottles Sample Specific Comments			
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection		Sample Matrix		Sampler's Initials					
29375-01		EPO2-14-060719		6/7/19 1310		Soil		AS					
-02		EPO2-SE-14-060719		↓ 1330		↓		↓					
-03		EPO2-SW-14-060719		↓ 1325		↓		↓					
-04		EPO2-NE-14-060719		↓ 1320		↓		↓					
-05		EPO2-NW-14-060719		↓ 1315		↓		↓					
Preservative Code:		Container Code		Westboro: Certification No: MA935		Container Type				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.)			
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		P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Mansfield: Certification No: MA015		Preservative							
		Relinquished By:		Date/Time		Received By:		Date/Time					
		Christy L...		6/7/19 14:15		Paul...		6/7/19 14:15					
		Paul...		6/7/19 15:50		Paul...		6/7/19 10:30					
		Paul...		6/7/19 22:10		Paul...		6/7/19 22:10					



ANALYTICAL REPORT

Lab Number:	L1836154
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	170500202
Project Number:	170500202
Report Date:	09/19/18

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1836154-01	EP03_15.0_091218	SOIL	300 WEST 122ND ST.	09/12/18 13:45	09/12/18
L1836154-02	EP06_15.5_091218	SOIL	300 WEST 122ND ST.	09/12/18 13:50	09/12/18
L1836154-03	EP09_14.5_091218	SOIL	300 WEST 122ND ST.	09/12/18 14:00	09/12/18
L1836154-04	EP11_14.5_091218	SOIL	300 WEST 122ND ST.	09/12/18 14:10	09/12/18
L1836154-05	EP17_14.0_091218	SOIL	300 WEST 122ND ST.	09/12/18 14:20	09/12/18
L1836154-06	EP23_13.5_091218	SOIL	300 WEST 122ND ST.	09/12/18 14:30	09/12/18
L1836154-07	TB01_091218	WATER	300 WEST 122ND ST.	09/12/18 00:00	09/12/18

Project Name: 170500202**Lab Number:** L1836154**Project Number:** 170500202**Report Date:** 09/19/18

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: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

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

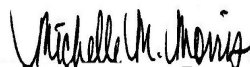
The Project Location and Client IDs were specified by the client.

Total Metals

L1836154-01 through -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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 09/19/18

ORGANICS

VOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-01
 Client ID: EP03_15.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:45
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/17/18 21:03
 Analyst: MV
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.93	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.93	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.93	0.12	1
Dibromochloromethane	ND		ug/kg	0.93	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.93	0.25	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.65	1
1,2-Dichloroethane	ND		ug/kg	0.93	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.16	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.93	0.50	1
Ethylbenzene	ND		ug/kg	0.93	0.13	1
Chloromethane	ND		ug/kg	3.7	0.87	1
Bromomethane	ND		ug/kg	1.9	0.54	1
Vinyl chloride	ND		ug/kg	0.93	0.31	1
Chloroethane	ND		ug/kg	1.9	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.93	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-01
 Client ID: EP03_15.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:45
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.52	1
o-Xylene	ND		ug/kg	0.93	0.27	1
Xylenes, Total	ND		ug/kg	0.93	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.93	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.93	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.22	1
Styrene	ND		ug/kg	0.93	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.3	0.85	1
Acetone	78		ug/kg	9.3	4.5	1
Carbon disulfide	ND		ug/kg	9.3	4.2	1
2-Butanone	ND		ug/kg	9.3	2.1	1
Vinyl acetate	ND		ug/kg	9.3	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.3	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.3	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.93	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.93	0.16	1
sec-Butylbenzene	ND		ug/kg	0.93	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.93	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.16	1
Isopropylbenzene	ND		ug/kg	0.93	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.93	0.10	1
Naphthalene	ND		ug/kg	3.7	0.60	1
Acrylonitrile	ND		ug/kg	3.7	1.1	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-01
 Client ID: EP03_15.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:45
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.93	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.31	1
1,4-Dioxane	ND		ug/kg	93	33.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.16	1
p-Ethyltoluene	ND		ug/kg	1.9	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	96		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-02
 Client ID: EP06_15.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:50
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/17/18 21:31
 Analyst: MV
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-02
 Client ID: EP06_15.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:50
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	ND		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.66	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-02
Client ID: EP06_15.5_091218
Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:50
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	100	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	97		70-130

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-03
 Client ID: EP09_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:00
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/14/18 17:24
 Analyst: MKS
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.4	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.97	0.53	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.90	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.97	0.32	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-03
 Client ID: EP09_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:00
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	0.33	J	ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.89	1
Acetone	ND		ug/kg	9.7	4.7	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.2	1
Vinyl acetate	ND		ug/kg	9.7	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.7	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.97	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.10	1
Naphthalene	ND		ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-03
Client ID: EP09_14.5_091218
Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:00
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.97	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	97	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	95		70-130

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-04
 Client ID: EP11_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:10
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/14/18 17:50
 Analyst: MKS
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.90	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.22	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.75	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-04
 Client ID: EP11_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:10
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.64	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	74		ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.9	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.2	0.84	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-04
Client ID: EP11_14.5_091218
Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:10
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	130	45.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.49	1
1,2,4,5-Tetramethylbenzene	1.2	J	ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	92		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-05
 Client ID: EP17_14.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:20
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/14/18 18:16
 Analyst: MKS
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.4	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.97	0.52	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.90	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.97	0.32	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-05
 Client ID: EP17_14.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:20
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.88	1
Acetone	14		ug/kg	9.7	4.6	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.1	1
Vinyl acetate	ND		ug/kg	9.7	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.7	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.97	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.10	1
Naphthalene	ND		ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-05
 Client ID: EP17_14.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:20
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.97	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	97	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	93		70-130

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-06
 Client ID: EP23_13.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/14/18 18:43
 Analyst: MKS
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.92	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.92	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.92	0.11	1
Dibromochloromethane	ND		ug/kg	0.92	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	0.24	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.15	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.92	0.50	1
Ethylbenzene	ND		ug/kg	0.92	0.13	1
Chloromethane	ND		ug/kg	3.7	0.86	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.92	0.31	1
Chloroethane	ND		ug/kg	1.8	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-06
 Client ID: EP23_13.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.92	0.27	1
Xylenes, Total	ND		ug/kg	0.92	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.92	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.92	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.84	1
Acetone	15		ug/kg	9.2	4.4	1
Carbon disulfide	ND		ug/kg	9.2	4.2	1
2-Butanone	ND		ug/kg	9.2	2.0	1
Vinyl acetate	ND		ug/kg	9.2	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.2	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.92	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.92	0.15	1
sec-Butylbenzene	ND		ug/kg	0.92	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.18	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.92	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.16	1
Isopropylbenzene	ND		ug/kg	0.92	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.10	1
Naphthalene	ND		ug/kg	3.7	0.60	1
Acrylonitrile	ND		ug/kg	3.7	1.0	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-06
 Client ID: EP23_13.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.92	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.31	1
1,4-Dioxane	ND		ug/kg	92	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.18	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	92		70-130

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-07
 Client ID: TB01_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 00:00
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/15/18 11:43
 Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-07
 Client ID: TB01_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 00:00
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-07
Client ID: TB01_091218
Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 00:00
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	88		70-130

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 09/14/18 11:50
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-06 Batch: WG1157382-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/14/18 11:50
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-06 Batch: WG1157382-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 170500202
Project Number: 170500202

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/14/18 11:50
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-06 Batch: WG1157382-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	100	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	86		70-130

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Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/15/18 09:10
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1157491-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 170500202

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Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/15/18 09:10
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1157491-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 170500202
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/15/18 09:10
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1157491-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	85		70-130

Project Name: 170500202

Lab Number: L1836154

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Report Date: 09/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/17/18 17:55
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1157983-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 170500202
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/17/18 17:55
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1157983-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

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Lab Number: L1836154

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/17/18 17:55
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1157983-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	100	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

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Project Number: 170500202

Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-06 Batch: WG1157382-3 WG1157382-4								
Methylene chloride	93		90		70-130	3		30
1,1-Dichloroethane	103		101		70-130	2		30
Chloroform	95		92		70-130	3		30
Carbon tetrachloride	88		84		70-130	5		30
1,2-Dichloropropane	118		115		70-130	3		30
Dibromochloromethane	97		92		70-130	5		30
1,1,2-Trichloroethane	103		101		70-130	2		30
Tetrachloroethene	90		91		70-130	1		30
Chlorobenzene	93		92		70-130	1		30
Trichlorofluoromethane	84		80		70-139	5		30
1,2-Dichloroethane	107		100		70-130	7		30
1,1,1-Trichloroethane	88		87		70-130	1		30
Bromodichloromethane	101		97		70-130	4		30
trans-1,3-Dichloropropene	106		102		70-130	4		30
cis-1,3-Dichloropropene	114		109		70-130	4		30
1,1-Dichloropropene	95		92		70-130	3		30
Bromoform	94		90		70-130	4		30
1,1,2,2-Tetrachloroethane	99		93		70-130	6		30
Benzene	95		92		70-130	3		30
Toluene	98		98		70-130	0		30
Ethylbenzene	95		94		70-130	1		30
Chloromethane	111		107		52-130	4		30
Bromomethane	47	Q	42	Q	57-147	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

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Project Number: 170500202

Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-06 Batch: WG1157382-3 WG1157382-4								
Vinyl chloride	62	Q	59	Q	67-130	5		30
Chloroethane	44	Q	42	Q	50-151	5		30
1,1-Dichloroethene	88		86		65-135	2		30
trans-1,2-Dichloroethene	92		90		70-130	2		30
Trichloroethene	96		93		70-130	3		30
1,2-Dichlorobenzene	93		90		70-130	3		30
1,3-Dichlorobenzene	93		92		70-130	1		30
1,4-Dichlorobenzene	91		90		70-130	1		30
Methyl tert butyl ether	105		100		66-130	5		30
p/m-Xylene	96		95		70-130	1		30
o-Xylene	98		96		70-130	2		30
cis-1,2-Dichloroethene	98		93		70-130	5		30
Dibromomethane	101		93		70-130	8		30
Styrene	80		79		70-130	1		30
Dichlorodifluoromethane	73		68		30-146	7		30
Acetone	111		101		54-140	9		30
Carbon disulfide	76		74		59-130	3		30
2-Butanone	138	Q	120		70-130	14		30
Vinyl acetate	115		107		70-130	7		30
4-Methyl-2-pentanone	123		114		70-130	8		30
1,2,3-Trichloropropane	98		92		68-130	6		30
2-Hexanone	120		113		70-130	6		30
Bromochloromethane	96		90		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-06 Batch: WG1157382-3 WG1157382-4								
2,2-Dichloropropane	90		87		70-130	3		30
1,2-Dibromoethane	103		97		70-130	6		30
1,3-Dichloropropane	106		100		69-130	6		30
1,1,1,2-Tetrachloroethane	94		93		70-130	1		30
Bromobenzene	95		93		70-130	2		30
n-Butylbenzene	93		90		70-130	3		30
sec-Butylbenzene	94		92		70-130	2		30
tert-Butylbenzene	96		96		70-130	0		30
o-Chlorotoluene	96		94		70-130	2		30
p-Chlorotoluene	98		97		70-130	1		30
1,2-Dibromo-3-chloropropane	98		87		68-130	12		30
Hexachlorobutadiene	89		89		67-130	0		30
Isopropylbenzene	95		94		70-130	1		30
p-Isopropyltoluene	97		96		70-130	1		30
Naphthalene	104		97		70-130	7		30
Acrylonitrile	126		116		70-130	8		30
n-Propylbenzene	92		92		70-130	0		30
1,2,3-Trichlorobenzene	100		96		70-130	4		30
1,2,4-Trichlorobenzene	100		96		70-130	4		30
1,3,5-Trimethylbenzene	96		95		70-130	1		30
1,2,4-Trimethylbenzene	101		99		70-130	2		30
1,4-Dioxane	96		89		65-136	8		30
p-Diethylbenzene	97		95		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1836154

Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-06 Batch: WG1157382-3 WG1157382-4								
p-Ethyltoluene	96		95		70-130	1		30
1,2,4,5-Tetramethylbenzene	86		85		70-130	1		30
Ethyl ether	106		98		67-130	8		30
trans-1,4-Dichloro-2-butene	101		102		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		93		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	108		108		70-130
Dibromofluoromethane	89		87		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1157491-3 WG1157491-4								
Methylene chloride	98		110		70-130	12		20
1,1-Dichloroethane	120		120		70-130	0		20
Chloroform	96		93		70-130	3		20
Carbon tetrachloride	86		86		63-132	0		20
1,2-Dichloropropane	120		120		70-130	0		20
Dibromochloromethane	91		96		63-130	5		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	99		94		70-130	5		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	98		95		62-150	3		20
1,2-Dichloroethane	95		94		70-130	1		20
1,1,1-Trichloroethane	94		93		67-130	1		20
Bromodichloromethane	93		91		67-130	2		20
trans-1,3-Dichloropropene	99		100		70-130	1		20
cis-1,3-Dichloropropene	93		93		70-130	0		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	100		96		54-136	4		20
1,1,1,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	99		99		70-130	0		20
Toluene	110		110		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	140	Q	140	Q	64-130	0		20
Bromomethane	100		100		39-139	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1157491-3 WG1157491-4								
Vinyl chloride	120		120		55-140	0		20
Chloroethane	120		110		55-138	9		20
1,1-Dichloroethene	110		120		61-145	9		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	94		96		70-130	2		20
1,2-Dichlorobenzene	100		98		70-130	2		20
1,3-Dichlorobenzene	100		98		70-130	2		20
1,4-Dichlorobenzene	100		98		70-130	2		20
Methyl tert butyl ether	85		90		63-130	6		20
p/m-Xylene	100		105		70-130	5		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	91		100		70-130	9		20
Dibromomethane	90		90		70-130	0		20
1,2,3-Trichloropropane	100		100		64-130	0		20
Acrylonitrile	110		130		70-130	17		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	110		100		36-147	10		20
Acetone	110		110		58-148	0		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	120		110		63-138	9		20
Vinyl acetate	100		110		70-130	10		20
4-Methyl-2-pentanone	110		120		59-130	9		20
2-Hexanone	100		120		57-130	18		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1157491-3 WG1157491-4								
Bromochloromethane	92		95		70-130	3		20
2,2-Dichloropropane	100		99		63-133	1		20
1,2-Dibromoethane	93		97		70-130	4		20
1,3-Dichloropropane	100		110		70-130	10		20
1,1,1,2-Tetrachloroethane	98		99		64-130	1		20
Bromobenzene	94		96		70-130	2		20
n-Butylbenzene	120		110		53-136	9		20
sec-Butylbenzene	110		100		70-130	10		20
tert-Butylbenzene	90		87		70-130	3		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	110		100		70-130	10		20
1,2-Dibromo-3-chloropropane	80		82		41-144	2		20
Hexachlorobutadiene	120		120		63-130	0		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	110		100		70-130	10		20
Naphthalene	82		85		70-130	4		20
n-Propylbenzene	120		110		69-130	9		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20
1,2,4-Trichlorobenzene	110		100		70-130	10		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		98		70-130	2		20
1,4-Dioxane	152		162		56-162	6		20
p-Diethylbenzene	99		99		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1836154

Report Date: 09/19/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1157491-3 WG1157491-4								
p-Ethyltoluene	100		99		70-130	1		20
1,2,4,5-Tetramethylbenzene	92		91		70-130	1		20
Ethyl ether	100		110		59-134	10		20
trans-1,4-Dichloro-2-butene	120		110		70-130	9		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	96		94		70-130
Toluene-d8	109		105		70-130
4-Bromofluorobenzene	103		102		70-130
Dibromofluoromethane	89		88		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1157983-3 WG1157983-4								
Methylene chloride	94		92		70-130	2		30
1,1-Dichloroethane	102		103		70-130	1		30
Chloroform	100		101		70-130	1		30
Carbon tetrachloride	104		106		70-130	2		30
1,2-Dichloropropane	102		104		70-130	2		30
Dibromochloromethane	110		115		70-130	4		30
1,1,2-Trichloroethane	110		114		70-130	4		30
Tetrachloroethene	118		118		70-130	0		30
Chlorobenzene	112		113		70-130	1		30
Trichlorofluoromethane	90		91		70-139	1		30
1,2-Dichloroethane	89		92		70-130	3		30
1,1,1-Trichloroethane	101		102		70-130	1		30
Bromodichloromethane	102		104		70-130	2		30
trans-1,3-Dichloropropene	100		103		70-130	3		30
cis-1,3-Dichloropropene	105		105		70-130	0		30
1,1-Dichloropropene	104		104		70-130	0		30
Bromoform	99		103		70-130	4		30
1,1,1,2-Tetrachloroethane	107		112		70-130	5		30
Benzene	101		102		70-130	1		30
Toluene	117		118		70-130	1		30
Ethylbenzene	115		116		70-130	1		30
Chloromethane	90		89		52-130	1		30
Bromomethane	99		99		57-147	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1157983-3 WG1157983-4								
Vinyl chloride	90		89		67-130	1		30
Chloroethane	84		85		50-151	1		30
1,1-Dichloroethene	93		93		65-135	0		30
trans-1,2-Dichloroethene	103		104		70-130	1		30
Trichloroethene	102		103		70-130	1		30
1,2-Dichlorobenzene	114		118		70-130	3		30
1,3-Dichlorobenzene	116		120		70-130	3		30
1,4-Dichlorobenzene	112		112		70-130	0		30
Methyl tert butyl ether	94		97		66-130	3		30
p/m-Xylene	117		118		70-130	1		30
o-Xylene	115		116		70-130	1		30
cis-1,2-Dichloroethene	101		102		70-130	1		30
Dibromomethane	96		99		70-130	3		30
Styrene	115		116		70-130	1		30
Dichlorodifluoromethane	67		68		30-146	1		30
Acetone	82		80		54-140	2		30
Carbon disulfide	96		88		59-130	9		30
2-Butanone	82		87		70-130	6		30
Vinyl acetate	88		90		70-130	2		30
4-Methyl-2-pentanone	98		102		70-130	4		30
1,2,3-Trichloropropane	106		109		68-130	3		30
2-Hexanone	106		110		70-130	4		30
Bromochloromethane	101		101		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1157983-3 WG1157983-4								
2,2-Dichloropropane	105		103		70-130	2		30
1,2-Dibromoethane	100		102		70-130	2		30
1,3-Dichloropropane	109		112		69-130	3		30
1,1,1,2-Tetrachloroethane	115		117		70-130	2		30
Bromobenzene	116		119		70-130	3		30
n-Butylbenzene	120		125		70-130	4		30
sec-Butylbenzene	118		119		70-130	1		30
tert-Butylbenzene	117		119		70-130	2		30
o-Chlorotoluene	114		118		70-130	3		30
p-Chlorotoluene	117		119		70-130	2		30
1,2-Dibromo-3-chloropropane	92		100		68-130	8		30
Hexachlorobutadiene	119		120		67-130	1		30
Isopropylbenzene	119		121		70-130	2		30
p-Isopropyltoluene	120		122		70-130	2		30
Naphthalene	110		116		70-130	5		30
Acrylonitrile	84		90		70-130	7		30
n-Propylbenzene	119		120		70-130	1		30
1,2,3-Trichlorobenzene	112		116		70-130	4		30
1,2,4-Trichlorobenzene	119		121		70-130	2		30
1,3,5-Trimethylbenzene	117		118		70-130	1		30
1,2,4-Trimethylbenzene	118		121		70-130	3		30
1,4-Dioxane	87		96		65-136	10		30
p-Diethylbenzene	122		124		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1836154

Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1157983-3 WG1157983-4								
p-Ethyltoluene	121		123		70-130	2		30
1,2,4,5-Tetramethylbenzene	118		119		70-130	1		30
Ethyl ether	87		88		67-130	1		30
trans-1,4-Dichloro-2-butene	101		105		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		93		70-130
Toluene-d8	108		107		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	95		98		70-130

SEMIVOLATILES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-01
 Client ID: EP03_15.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:45
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/17/18 13:28
 Analyst: RC
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 09/13/18 21:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	480		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	23	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-01
 Client ID: EP03_15.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:45
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	260		ug/kg	110	20.	1
Benzo(a)pyrene	260		ug/kg	140	43.	1
Benzo(b)fluoranthene	370		ug/kg	110	30.	1
Benzo(k)fluoranthene	110		ug/kg	110	28.	1
Chrysene	250		ug/kg	110	18.	1
Acenaphthylene	74	J	ug/kg	140	27.	1
Anthracene	71	J	ug/kg	110	35.	1
Benzo(ghi)perylene	180		ug/kg	140	21.	1
Fluorene	20	J	ug/kg	180	17.	1
Phenanthrene	200		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	44	J	ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	190		ug/kg	140	25.	1
Pyrene	430		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-01
 Client ID: EP03_15.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:45
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	21	J	ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	71		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-02
 Client ID: EP06_15.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:50
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/17/18 13:54
 Analyst: RC
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 09/13/18 21:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	23	J	ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	950		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	36	J	ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-02
 Client ID: EP06_15.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:50
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	560		ug/kg	120	23.	1
Benzo(a)pyrene	590		ug/kg	160	50.	1
Benzo(b)fluoranthene	790		ug/kg	120	34.	1
Benzo(k)fluoranthene	270		ug/kg	120	33.	1
Chrysene	560		ug/kg	120	21.	1
Acenaphthylene	150	J	ug/kg	160	32.	1
Anthracene	160		ug/kg	120	40.	1
Benzo(ghi)perylene	390		ug/kg	160	24.	1
Fluorene	34	J	ug/kg	200	20.	1
Phenanthrene	360		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	98	J	ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	420		ug/kg	160	29.	1
Pyrene	870		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	40.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	19	J	ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	980	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-02
 Client ID: EP06_15.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:50
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	45	J	ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	76		18-120

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-03
 Client ID: EP09_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:00
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/17/18 14:19
 Analyst: RC
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 09/13/18 21:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	450		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	95	J	ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-03
 Client ID: EP09_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:00
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	250		ug/kg	130	24.	1
Benzo(a)pyrene	260		ug/kg	170	51.	1
Benzo(b)fluoranthene	360		ug/kg	130	35.	1
Benzo(k)fluoranthene	130		ug/kg	130	34.	1
Chrysene	240		ug/kg	130	22.	1
Acenaphthylene	100	J	ug/kg	170	32.	1
Anthracene	76	J	ug/kg	130	41.	1
Benzo(ghi)perylene	260		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	180		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	48	J	ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	210		ug/kg	170	29.	1
Pyrene	420		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	79.	1
4-Nitrophenol	ND		ug/kg	290	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-03
 Client ID: EP09_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:00
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	22	J	ug/kg	210	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	70		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-04
 Client ID: EP11_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:10
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/17/18 14:44
 Analyst: RC
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 09/13/18 21:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	51	J	ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	1600		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	96	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-04
 Client ID: EP11_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:10
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	790		ug/kg	120	22.	1
Benzo(a)pyrene	700		ug/kg	150	47.	1
Benzo(b)fluoranthene	940		ug/kg	120	32.	1
Benzo(k)fluoranthene	320		ug/kg	120	31.	1
Chrysene	760		ug/kg	120	20.	1
Acenaphthylene	150		ug/kg	150	30.	1
Anthracene	260		ug/kg	120	38.	1
Benzo(ghi)perylene	440		ug/kg	150	23.	1
Fluorene	90	J	ug/kg	190	19.	1
Phenanthrene	900		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	110	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	470		ug/kg	150	27.	1
Pyrene	1400		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	60	J	ug/kg	190	18.	1
2-Methylnaphthalene	57	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	72.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	920	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-04
 Client ID: EP11_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:10
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	95	J	ug/kg	190	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	40		10-136
4-Terphenyl-d14	72		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-05
 Client ID: EP17_14.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:20
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/17/18 16:25
 Analyst: RC
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 09/13/18 21:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	21	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	610		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	42	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-05
 Client ID: EP17_14.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:20
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	290		ug/kg	110	20.	1
Benzo(a)pyrene	260		ug/kg	140	43.	1
Benzo(b)fluoranthene	340		ug/kg	110	30.	1
Benzo(k)fluoranthene	120		ug/kg	110	28.	1
Chrysene	290		ug/kg	110	18.	1
Acenaphthylene	56	J	ug/kg	140	27.	1
Anthracene	91	J	ug/kg	110	34.	1
Benzo(ghi)perylene	170		ug/kg	140	21.	1
Fluorene	29	J	ug/kg	180	17.	1
Phenanthrene	390		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	43	J	ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	180		ug/kg	140	25.	1
Pyrene	550		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	22	J	ug/kg	180	17.	1
2-Methylnaphthalene	32	J	ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-05
 Client ID: EP17_14.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:20
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	36	J	ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	55		10-136
4-Terphenyl-d14	61		18-120

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-06
 Client ID: EP23_13.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/17/18 17:16
 Analyst: RC
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 09/13/18 21:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	170		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-06
 Client ID: EP23_13.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	86	J	ug/kg	110	20.	1
Benzo(a)pyrene	82	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	110		ug/kg	110	30.	1
Benzo(k)fluoranthene	39	J	ug/kg	110	29.	1
Chrysene	82	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	51	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	92	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	56	J	ug/kg	140	25.	1
Pyrene	150		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-06
 Client ID: EP23_13.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	83		18-120

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 09/15/18 21:20
 Analyst: KR

Extraction Method: EPA 3546
 Extraction Date: 09/13/18 21:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1156736-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 09/15/18 21:20
 Analyst: KR

Extraction Method: EPA 3546
 Extraction Date: 09/13/18 21:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1156736-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 09/15/18 21:20
 Analyst: KR

Extraction Method: EPA 3546
 Extraction Date: 09/13/18 21:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1156736-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	83		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1156736-2 WG1156736-3								
Acenaphthene	92		92		31-137	0		50
1,2,4-Trichlorobenzene	98		95		38-107	3		50
Hexachlorobenzene	102		104		40-140	2		50
Bis(2-chloroethyl)ether	84		81		40-140	4		50
2-Chloronaphthalene	98		99		40-140	1		50
1,2-Dichlorobenzene	90		84		40-140	7		50
1,3-Dichlorobenzene	85		77		40-140	10		50
1,4-Dichlorobenzene	89		80		28-104	11		50
3,3'-Dichlorobenzidine	86		89		40-140	3		50
2,4-Dinitrotoluene	118		119		40-132	1		50
2,6-Dinitrotoluene	112		117		40-140	4		50
Fluoranthene	102		106		40-140	4		50
4-Chlorophenyl phenyl ether	94		96		40-140	2		50
4-Bromophenyl phenyl ether	97		98		40-140	1		50
Bis(2-chloroisopropyl)ether	93		94		40-140	1		50
Bis(2-chloroethoxy)methane	92		90		40-117	2		50
Hexachlorobutadiene	106		105		40-140	1		50
Hexachlorocyclopentadiene	100		100		40-140	0		50
Hexachloroethane	98		92		40-140	6		50
Isophorone	100		99		40-140	1		50
Naphthalene	87		86		40-140	1		50
Nitrobenzene	96		96		40-140	0		50
NDPA/DPA	98		100		36-157	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1156736-2 WG1156736-3								
n-Nitrosodi-n-propylamine	99		93		32-121	6		50
Bis(2-ethylhexyl)phthalate	114		112		40-140	2		50
Butyl benzyl phthalate	117		123		40-140	5		50
Di-n-butylphthalate	110		114		40-140	4		50
Di-n-octylphthalate	115		115		40-140	0		50
Diethyl phthalate	107		111		40-140	4		50
Dimethyl phthalate	107		110		40-140	3		50
Benzo(a)anthracene	91		91		40-140	0		50
Benzo(a)pyrene	96		97		40-140	1		50
Benzo(b)fluoranthene	87		88		40-140	1		50
Benzo(k)fluoranthene	110		111		40-140	1		50
Chrysene	95		93		40-140	2		50
Acenaphthylene	102		104		40-140	2		50
Anthracene	100		102		40-140	2		50
Benzo(ghi)perylene	98		97		40-140	1		50
Fluorene	97		96		40-140	1		50
Phenanthrene	90		91		40-140	1		50
Dibenzo(a,h)anthracene	98		96		40-140	2		50
Indeno(1,2,3-cd)pyrene	91		92		40-140	1		50
Pyrene	101		102		35-142	1		50
Biphenyl	102		101		54-104	1		50
4-Chloroaniline	83		81		40-140	2		50
2-Nitroaniline	105		114		47-134	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1156736-2 WG1156736-3								
3-Nitroaniline	86		89		26-129	3		50
4-Nitroaniline	92		90		41-125	2		50
Dibenzofuran	94		96		40-140	2		50
2-Methylnaphthalene	90		91		40-140	1		50
1,2,4,5-Tetrachlorobenzene	105		106		40-117	1		50
Acetophenone	98		97		14-144	1		50
2,4,6-Trichlorophenol	106		106		30-130	0		50
p-Chloro-m-cresol	110	Q	107	Q	26-103	3		50
2-Chlorophenol	98		96		25-102	2		50
2,4-Dichlorophenol	106		111		30-130	5		50
2,4-Dimethylphenol	107		108		30-130	1		50
2-Nitrophenol	107		102		30-130	5		50
4-Nitrophenol	127	Q	129	Q	11-114	2		50
2,4-Dinitrophenol	88		86		4-130	2		50
4,6-Dinitro-o-cresol	100		105		10-130	5		50
Pentachlorophenol	101		101		17-109	0		50
Phenol	82		84		26-90	2		50
2-Methylphenol	93		92		30-130.	1		50
3-Methylphenol/4-Methylphenol	93		94		30-130	1		50
2,4,5-Trichlorophenol	116		115		30-130	1		50
Benzoic Acid	51		46		10-110	10		50
Benzyl Alcohol	91		96		40-140	5		50
Carbazole	98		101		54-128	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1156736-2 WG1156736-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	85		79		25-120
Phenol-d6	89		86		10-120
Nitrobenzene-d5	101		95		23-120
2-Fluorobiphenyl	94		92		30-120
2,4,6-Tribromophenol	100		103		10-136
4-Terphenyl-d14	82		84		18-120

PCBS

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-01
 Client ID: EP03_15.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:45
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/18/18 04:02
 Analyst: JW
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 09/14/18 08:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/14/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.6	3.07	1	A
Aroclor 1221	ND		ug/kg	34.6	3.46	1	A
Aroclor 1232	ND		ug/kg	34.6	7.33	1	A
Aroclor 1242	ND		ug/kg	34.6	4.66	1	A
Aroclor 1248	ND		ug/kg	34.6	5.19	1	A
Aroclor 1254	7.19	J	ug/kg	34.6	3.78	1	B
Aroclor 1260	8.39	J	ug/kg	34.6	6.39	1	A
Aroclor 1262	ND		ug/kg	34.6	4.39	1	A
Aroclor 1268	ND		ug/kg	34.6	3.58	1	A
PCBs, Total	15.6	J	ug/kg	34.6	3.07	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-02
 Client ID: EP06_15.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:50
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/18/18 04:14
 Analyst: JW
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 09/14/18 08:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/14/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.3	3.67	1	A
Aroclor 1221	ND		ug/kg	41.3	4.14	1	A
Aroclor 1232	ND		ug/kg	41.3	8.76	1	A
Aroclor 1242	9.72	J	ug/kg	41.3	5.57	1	B
Aroclor 1248	ND		ug/kg	41.3	6.20	1	A
Aroclor 1254	13.9	J	ug/kg	41.3	4.52	1	B
Aroclor 1260	13.6	J	ug/kg	41.3	7.63	1	A
Aroclor 1262	ND		ug/kg	41.3	5.24	1	A
Aroclor 1268	ND		ug/kg	41.3	4.28	1	A
PCBs, Total	37.2	J	ug/kg	41.3	3.67	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-03
 Client ID: EP09_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:00
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/18/18 04:27
 Analyst: JW
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 09/14/18 08:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/14/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.0	3.64	1	A
Aroclor 1221	ND		ug/kg	41.0	4.10	1	A
Aroclor 1232	ND		ug/kg	41.0	8.68	1	A
Aroclor 1242	5.92	J	ug/kg	41.0	5.52	1	B
Aroclor 1248	ND		ug/kg	41.0	6.14	1	A
Aroclor 1254	7.42	J	ug/kg	41.0	4.48	1	B
Aroclor 1260	11.9	J	ug/kg	41.0	7.57	1	B
Aroclor 1262	ND		ug/kg	41.0	5.20	1	A
Aroclor 1268	ND		ug/kg	41.0	4.24	1	A
PCBs, Total	25.2	J	ug/kg	41.0	3.64	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-04
 Client ID: EP11_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:10
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/18/18 04:39
 Analyst: JW
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 09/14/18 08:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/14/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.3	3.31	1	A
Aroclor 1221	ND		ug/kg	37.3	3.74	1	A
Aroclor 1232	ND		ug/kg	37.3	7.90	1	A
Aroclor 1242	21.6	J	ug/kg	37.3	5.02	1	B
Aroclor 1248	ND		ug/kg	37.3	5.59	1	A
Aroclor 1254	15.8	J	ug/kg	37.3	4.08	1	B
Aroclor 1260	9.79	J	ug/kg	37.3	6.89	1	A
Aroclor 1262	ND		ug/kg	37.3	4.73	1	A
Aroclor 1268	ND		ug/kg	37.3	3.86	1	A
PCBs, Total	47.2	J	ug/kg	37.3	3.31	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-05
Client ID: EP17_14.0_091218
Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:20
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/18/18 04:51
Analyst: JW
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 09/14/18 08:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/14/18
Cleanup Method: EPA 3660B
Cleanup Date: 09/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.7	3.17	1	A
Aroclor 1221	ND		ug/kg	35.7	3.58	1	A
Aroclor 1232	ND		ug/kg	35.7	7.57	1	A
Aroclor 1242	ND		ug/kg	35.7	4.82	1	A
Aroclor 1248	ND		ug/kg	35.7	5.36	1	A
Aroclor 1254	ND		ug/kg	35.7	3.91	1	A
Aroclor 1260	ND		ug/kg	35.7	6.60	1	A
Aroclor 1262	ND		ug/kg	35.7	4.54	1	A
Aroclor 1268	ND		ug/kg	35.7	3.70	1	A
PCBs, Total	ND		ug/kg	35.7	3.17	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-06
Client ID: EP23_13.5_091218
Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:30
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/18/18 05:04
Analyst: JW
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 09/14/18 08:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/14/18
Cleanup Method: EPA 3660B
Cleanup Date: 09/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.3	3.14	1	A
Aroclor 1221	ND		ug/kg	35.3	3.54	1	A
Aroclor 1232	ND		ug/kg	35.3	7.49	1	A
Aroclor 1242	ND		ug/kg	35.3	4.76	1	A
Aroclor 1248	ND		ug/kg	35.3	5.30	1	A
Aroclor 1254	ND		ug/kg	35.3	3.86	1	A
Aroclor 1260	ND		ug/kg	35.3	6.53	1	A
Aroclor 1262	ND		ug/kg	35.3	4.49	1	A
Aroclor 1268	ND		ug/kg	35.3	3.66	1	A
PCBs, Total	ND		ug/kg	35.3	3.14	1	A

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

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 09/18/18 07:34
 Analyst: JW

Extraction Method: EPA 3546
 Extraction Date: 09/14/18 08:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/14/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-06 Batch: WG1156885-1						
Aroclor 1016	ND		ug/kg	32.5	2.88	A
Aroclor 1221	ND		ug/kg	32.5	3.25	A
Aroclor 1232	ND		ug/kg	32.5	6.88	A
Aroclor 1242	ND		ug/kg	32.5	4.38	A
Aroclor 1248	ND		ug/kg	32.5	4.87	A
Aroclor 1254	ND		ug/kg	32.5	3.55	A
Aroclor 1260	ND		ug/kg	32.5	6.00	A
Aroclor 1262	ND		ug/kg	32.5	4.12	A
Aroclor 1268	ND		ug/kg	32.5	3.36	A
PCBs, Total	ND		ug/kg	32.5	2.88	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	90		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1156885-2 WG1156885-3									
Aroclor 1016	74		72		40-140	3		50	A
Aroclor 1260	77		78		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		76		30-150	A
Decachlorobiphenyl	87		82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		77		30-150	B
Decachlorobiphenyl	93		88		30-150	B

PESTICIDES

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-01
 Client ID: EP03_15.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:45
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/15/18 16:20
 Analyst: KEG
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 09/13/18 22:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.330	1	A
Lindane	ND		ug/kg	0.701	0.314	1	A
Alpha-BHC	ND		ug/kg	0.701	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.638	1	A
Heptachlor	ND		ug/kg	0.842	0.377	1	A
Aldrin	ND		ug/kg	1.68	0.593	1	A
Heptachlor epoxide	1.32	J	ug/kg	3.16	0.947	1	A
Endrin	ND		ug/kg	0.701	0.288	1	A
Endrin aldehyde	ND		ug/kg	2.10	0.736	1	A
Endrin ketone	ND		ug/kg	1.68	0.433	1	A
Dieldrin	0.764	J	ug/kg	1.05	0.526	1	B
4,4'-DDE	0.855	J	ug/kg	1.68	0.389	1	B
4,4'-DDD	ND		ug/kg	1.68	0.600	1	A
4,4'-DDT	3.88	P	ug/kg	3.16	1.35	1	A
Endosulfan I	ND		ug/kg	1.68	0.398	1	A
Endosulfan II	0.966	J	ug/kg	1.68	0.562	1	B
Endosulfan sulfate	ND		ug/kg	0.701	0.334	1	A
Methoxychlor	ND		ug/kg	3.16	0.982	1	A
Toxaphene	ND		ug/kg	31.6	8.84	1	A
cis-Chlordane	1.54	J	ug/kg	2.10	0.586	1	A
trans-Chlordane	1.02	JPI	ug/kg	2.10	0.556	1	A
Chlordane	ND		ug/kg	13.7	5.58	1	A

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-01
 Client ID: EP03_15.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:45
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	96		30-150	B
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	129		30-150	A

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-01
 Client ID: EP03_15.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:45
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/15/18 19:44
 Analyst: DGM
 Percent Solids: 92%
 Methylation Date: 09/14/18 12:18

Extraction Method: EPA 8151A
 Extraction Date: 09/13/18 21:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	178	11.2	1	A
2,4,5-T	ND		ug/kg	178	5.50	1	A
2,4,5-TP (Silvex)	ND		ug/kg	178	4.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	102		30-150	A
DCAA	81		30-150	B

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-02
Client ID: EP06_15.5_091218
Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:50
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/15/18 16:32
Analyst: KEG
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 09/13/18 22:22
Cleanup Method: EPA 3620B
Cleanup Date: 09/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.95	0.381	1	A
Lindane	ND		ug/kg	0.811	0.362	1	A
Alpha-BHC	ND		ug/kg	0.811	0.230	1	A
Beta-BHC	ND		ug/kg	1.95	0.738	1	A
Heptachlor	2.89	P	ug/kg	0.973	0.436	1	A
Aldrin	ND		ug/kg	1.95	0.685	1	A
Heptachlor epoxide	2.43	J	ug/kg	3.65	1.09	1	A
Endrin	ND		ug/kg	0.811	0.332	1	A
Endrin aldehyde	ND		ug/kg	2.43	0.852	1	A
Endrin ketone	ND		ug/kg	1.95	0.501	1	A
Dieldrin	6.88		ug/kg	1.22	0.608	1	B
4,4'-DDE	4.87		ug/kg	1.95	0.450	1	A
4,4'-DDD	ND		ug/kg	1.95	0.694	1	A
4,4'-DDT	5.64		ug/kg	3.65	1.56	1	A
Endosulfan I	ND		ug/kg	1.95	0.460	1	A
Endosulfan II	1.45	J	ug/kg	1.95	0.650	1	B
Endosulfan sulfate	ND		ug/kg	0.811	0.386	1	A
Methoxychlor	ND		ug/kg	3.65	1.14	1	A
Toxaphene	ND		ug/kg	36.5	10.2	1	A
cis-Chlordane	4.26	PI	ug/kg	2.43	0.678	1	B
trans-Chlordane	4.06	PI	ug/kg	2.43	0.642	1	A
Chlordane	70.1		ug/kg	15.8	6.45	1	B

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-02
 Client ID: EP06_15.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:50
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	111		30-150	A

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-02
 Client ID: EP06_15.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:50
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/15/18 20:21
 Analyst: DGM
 Percent Solids: 80%
 Methylation Date: 09/14/18 12:18

Extraction Method: EPA 8151A
 Extraction Date: 09/13/18 21:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	207	13.0	1	A
2,4,5-T	ND		ug/kg	207	6.42	1	A
2,4,5-TP (Silvex)	ND		ug/kg	207	5.51	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	110		30-150	A
DCAA	81		30-150	B

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-03
Client ID: EP09_14.5_091218
Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:00
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/15/18 16:45
Analyst: KEG
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 09/13/18 22:22
Cleanup Method: EPA 3620B
Cleanup Date: 09/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.98	0.387	1	A
Lindane	ND		ug/kg	0.823	0.368	1	A
Alpha-BHC	ND		ug/kg	0.823	0.234	1	A
Beta-BHC	ND		ug/kg	1.98	0.749	1	A
Heptachlor	ND		ug/kg	0.988	0.443	1	B
Aldrin	ND		ug/kg	1.98	0.695	1	A
Heptachlor epoxide	ND		ug/kg	3.70	1.11	1	A
Endrin	ND		ug/kg	0.823	0.337	1	A
Endrin aldehyde	ND		ug/kg	2.47	0.864	1	A
Endrin ketone	ND		ug/kg	1.98	0.508	1	A
Dieldrin	0.811	J	ug/kg	1.23	0.617	1	B
4,4'-DDE	0.532	J	ug/kg	1.98	0.457	1	B
4,4'-DDD	ND		ug/kg	1.98	0.704	1	A
4,4'-DDT	2.45	J	ug/kg	3.70	1.59	1	A
Endosulfan I	ND		ug/kg	1.98	0.466	1	A
Endosulfan II	ND		ug/kg	1.98	0.660	1	A
Endosulfan sulfate	ND		ug/kg	0.823	0.392	1	A
Methoxychlor	ND		ug/kg	3.70	1.15	1	A
Toxaphene	ND		ug/kg	37.0	10.4	1	A
cis-Chlordane	0.843	J	ug/kg	2.47	0.688	1	A
trans-Chlordane	ND	PI	ug/kg	2.47	0.652	1	A
Chlordane	ND		ug/kg	16.0	6.54	1	A

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-03
 Client ID: EP09_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:00
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	97		30-150	A

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-03
 Client ID: EP09_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:00
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/15/18 20:40
 Analyst: DGM
 Percent Solids: 79%
 Methylation Date: 09/14/18 12:18

Extraction Method: EPA 8151A
 Extraction Date: 09/13/18 21:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	206	13.0	1	A
2,4,5-T	ND		ug/kg	206	6.38	1	A
2,4,5-TP (Silvex)	ND		ug/kg	206	5.47	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	131		30-150	A
DCAA	89		30-150	B

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-04
 Client ID: EP11_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:10
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/15/18 16:57
 Analyst: KEG
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 09/13/18 22:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.81	0.354	1	A
Lindane	ND		ug/kg	0.753	0.337	1	A
Alpha-BHC	ND		ug/kg	0.753	0.214	1	A
Beta-BHC	ND		ug/kg	1.81	0.685	1	A
Heptachlor	ND		ug/kg	0.904	0.405	1	A
Aldrin	ND		ug/kg	1.81	0.636	1	A
Heptachlor epoxide	ND		ug/kg	3.39	1.02	1	A
Endrin	ND		ug/kg	0.753	0.309	1	A
Endrin aldehyde	ND		ug/kg	2.26	0.791	1	A
Endrin ketone	ND		ug/kg	1.81	0.466	1	A
Dieldrin	1.39		ug/kg	1.13	0.565	1	B
4,4'-DDE	2.20		ug/kg	1.81	0.418	1	A
4,4'-DDD	ND		ug/kg	1.81	0.645	1	A
4,4'-DDT	6.23		ug/kg	3.39	1.45	1	A
Endosulfan I	ND		ug/kg	1.81	0.427	1	A
Endosulfan II	ND	PI	ug/kg	1.81	0.604	1	A
Endosulfan sulfate	ND		ug/kg	0.753	0.358	1	A
Methoxychlor	ND		ug/kg	3.39	1.05	1	A
Toxaphene	ND		ug/kg	33.9	9.49	1	A
cis-Chlordane	2.00	J	ug/kg	2.26	0.630	1	A
trans-Chlordane	3.46	PI	ug/kg	2.26	0.596	1	A
Chlordane	ND		ug/kg	14.7	5.99	1	A

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-04
 Client ID: EP11_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:10
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	112		30-150	A

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-04
 Client ID: EP11_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:10
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/15/18 20:59
 Analyst: DGM
 Percent Solids: 85%
 Methylation Date: 09/14/18 12:18

Extraction Method: EPA 8151A
 Extraction Date: 09/13/18 21:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	191	12.1	1	A
2,4,5-T	ND		ug/kg	191	5.93	1	A
2,4,5-TP (Silvex)	ND		ug/kg	191	5.09	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	106		30-150	A
DCAA	85		30-150	B

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-05
 Client ID: EP17_14.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:20
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/15/18 17:10
 Analyst: KEG
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 09/13/18 22:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.333	1	A
Lindane	ND		ug/kg	0.708	0.316	1	A
Alpha-BHC	ND		ug/kg	0.708	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.644	1	A
Heptachlor	ND		ug/kg	0.850	0.381	1	A
Aldrin	ND		ug/kg	1.70	0.598	1	A
Heptachlor epoxide	ND		ug/kg	3.18	0.956	1	A
Endrin	ND		ug/kg	0.708	0.290	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.743	1	A
Endrin ketone	ND		ug/kg	1.70	0.438	1	A
Dieldrin	ND		ug/kg	1.06	0.531	1	B
4,4'-DDE	0.442	J	ug/kg	1.70	0.393	1	B
4,4'-DDD	ND		ug/kg	1.70	0.606	1	A
4,4'-DDT	1.50	J	ug/kg	3.18	1.37	1	B
Endosulfan I	ND		ug/kg	1.70	0.401	1	A
Endosulfan II	ND		ug/kg	1.70	0.568	1	A
Endosulfan sulfate	ND		ug/kg	0.708	0.337	1	A
Methoxychlor	ND		ug/kg	3.18	0.991	1	A
Toxaphene	ND		ug/kg	31.8	8.92	1	A
cis-Chlordane	0.730	J	ug/kg	2.12	0.592	1	B
trans-Chlordane	0.574	JPI	ug/kg	2.12	0.561	1	A
Chlordane	ND		ug/kg	13.8	5.63	1	A

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-05
 Client ID: EP17_14.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:20
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	62		30-150	A

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-05
 Client ID: EP17_14.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:20
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/15/18 21:18
 Analyst: DGM
 Percent Solids: 92%
 Methylation Date: 09/14/18 12:18

Extraction Method: EPA 8151A
 Extraction Date: 09/13/18 21:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	177	11.1	1	A
2,4,5-T	ND		ug/kg	177	5.48	1	A
2,4,5-TP (Silvex)	ND		ug/kg	177	4.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	79		30-150	B

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-06
 Client ID: EP23_13.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/15/18 17:23
 Analyst: KEG
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 09/13/18 22:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.342	1	A
Lindane	ND		ug/kg	0.727	0.325	1	A
Alpha-BHC	ND		ug/kg	0.727	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.662	1	A
Heptachlor	ND		ug/kg	0.872	0.391	1	A
Aldrin	ND		ug/kg	1.74	0.614	1	A
Heptachlor epoxide	1.40	J	ug/kg	3.27	0.982	1	A
Endrin	ND		ug/kg	0.727	0.298	1	A
Endrin aldehyde	ND		ug/kg	2.18	0.763	1	A
Endrin ketone	ND		ug/kg	1.74	0.449	1	A
Dieldrin	ND		ug/kg	1.09	0.545	1	B
4,4'-DDE	ND		ug/kg	1.74	0.404	1	B
4,4'-DDD	ND		ug/kg	1.74	0.622	1	A
4,4'-DDT	ND		ug/kg	3.27	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.412	1	A
Endosulfan II	ND		ug/kg	1.74	0.583	1	A
Endosulfan sulfate	ND		ug/kg	0.727	0.346	1	A
Methoxychlor	ND		ug/kg	3.27	1.02	1	A
Toxaphene	ND		ug/kg	32.7	9.16	1	A
cis-Chlordane	0.735	J	ug/kg	2.18	0.608	1	A
trans-Chlordane	ND	PI	ug/kg	2.18	0.576	1	A
Chlordane	ND		ug/kg	14.2	5.78	1	A

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-06
 Client ID: EP23_13.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	99		30-150	A

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-06
 Client ID: EP23_13.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/15/18 21:36
 Analyst: DGM
 Percent Solids: 91%
 Methylation Date: 09/14/18 12:18

Extraction Method: EPA 8151A
 Extraction Date: 09/13/18 21:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	180	11.3	1	A
2,4,5-T	ND		ug/kg	180	5.58	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	94		30-150	A
DCAA	82		30-150	B

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
 Analytical Date: 09/14/18 10:05
 Analyst: KEG

Extraction Method: EPA 8151A
 Extraction Date: 09/13/18 21:34

Methylation Date: 09/14/18 07:36

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-06 Batch: WG1156742-1						
2,4-D	ND		ug/kg	164	10.4	A
2,4,5-T	ND		ug/kg	164	5.10	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.38	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	84		30-150	B

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 09/15/18 15:42
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 09/13/18 22:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-06 Batch: WG1156752-1						
Delta-BHC	ND		ug/kg	1.56	0.306	A
Lindane	ND		ug/kg	0.650	0.291	A
Alpha-BHC	ND		ug/kg	0.650	0.185	A
Beta-BHC	ND		ug/kg	1.56	0.592	A
Heptachlor	ND		ug/kg	0.780	0.350	A
Aldrin	ND		ug/kg	1.56	0.549	A
Heptachlor epoxide	ND		ug/kg	2.92	0.878	A
Endrin	ND		ug/kg	0.650	0.266	A
Endrin aldehyde	ND		ug/kg	1.95	0.683	A
Endrin ketone	ND		ug/kg	1.56	0.402	A
Dieldrin	ND		ug/kg	0.975	0.488	A
4,4'-DDE	ND		ug/kg	1.56	0.361	A
4,4'-DDD	ND		ug/kg	1.56	0.556	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.369	A
Endosulfan II	ND		ug/kg	1.56	0.521	A
Endosulfan sulfate	ND		ug/kg	0.650	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.910	A
Toxaphene	ND		ug/kg	29.2	8.19	A
cis-Chlordane	ND		ug/kg	1.95	0.544	A
trans-Chlordane	ND		ug/kg	1.95	0.515	A
Chlordane	ND		ug/kg	12.7	5.17	A

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 09/15/18 15:42
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 09/13/18 22:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-06 Batch: WG1156752-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	83		30-150	B
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	89		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1156742-2 WG1156742-3									
2,4-D	159	Q	178	Q	30-150	11		30	A
2,4,5-T	91		94		30-150	3		30	A
2,4,5-TP (Silvex)	100		106		30-150	6		30	A

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria	Column
DCAA	98		101		30-150	A
DCAA	89		87		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1156752-2 WG1156752-3									
Delta-BHC	87		98		30-150	12		30	A
Lindane	82		92		30-150	11		30	A
Alpha-BHC	79		90		30-150	13		30	A
Beta-BHC	86		119		30-150	32	Q	30	A
Heptachlor	88		98		30-150	11		30	A
Aldrin	88		97		30-150	10		30	A
Heptachlor epoxide	91		102		30-150	11		30	A
Endrin	99		111		30-150	11		30	A
Endrin aldehyde	75		86		30-150	14		30	A
Endrin ketone	100		114		30-150	13		30	A
Dieldrin	92		110		30-150	18		30	A
4,4'-DDE	87		97		30-150	11		30	A
4,4'-DDD	92		103		30-150	11		30	A
4,4'-DDT	98		109		30-150	11		30	A
Endosulfan I	86		96		30-150	11		30	A
Endosulfan II	90		101		30-150	12		30	A
Endosulfan sulfate	77		97		30-150	23		30	A
Methoxychlor	100		112		30-150	11		30	A
cis-Chlordane	75		83		30-150	10		30	A
trans-Chlordane	60		64		30-150	6		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1156752-2 WG1156752-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	86		91		30-150	B
Decachlorobiphenyl	88		95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		96		30-150	A
Decachlorobiphenyl	93		102		30-150	A

METALS

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-01
 Client ID: EP03_15.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:45
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4160		mg/kg	8.38	2.26	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Antimony, Total	0.914	J	mg/kg	4.19	0.318	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Arsenic, Total	2.68		mg/kg	0.838	0.174	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Barium, Total	61.1		mg/kg	0.838	0.146	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Beryllium, Total	0.184	J	mg/kg	0.419	0.028	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Cadmium, Total	0.302	J	mg/kg	0.838	0.082	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Calcium, Total	11200		mg/kg	8.38	2.93	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Chromium, Total	9.13		mg/kg	0.838	0.081	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Cobalt, Total	3.96		mg/kg	1.68	0.139	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Copper, Total	18.2		mg/kg	0.838	0.216	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Iron, Total	11800		mg/kg	4.19	0.757	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Lead, Total	169		mg/kg	4.19	0.225	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Magnesium, Total	2320		mg/kg	8.38	1.29	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Manganese, Total	261		mg/kg	0.838	0.133	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Mercury, Total	0.241		mg/kg	0.068	0.014	1	09/18/18 10:30	09/18/18 15:42	EPA 7471B	1,7471B	MG
Nickel, Total	9.04		mg/kg	2.10	0.203	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Potassium, Total	780		mg/kg	210	12.1	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Selenium, Total	0.796	J	mg/kg	1.68	0.216	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.838	0.237	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Sodium, Total	115	J	mg/kg	168	2.64	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.68	0.264	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Vanadium, Total	13.9		mg/kg	0.838	0.170	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
Zinc, Total	63.5		mg/kg	4.19	0.246	2	09/18/18 15:19	09/18/18 22:57	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.9	J	mg/kg	0.87	0.87	1		09/18/18 22:57	NA	107,-	



Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-02
 Client ID: EP06_15.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 13:50
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3600		mg/kg	9.79	2.64	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Antimony, Total	0.646	J	mg/kg	4.89	0.372	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Arsenic, Total	3.14		mg/kg	0.979	0.204	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Barium, Total	52.2		mg/kg	0.979	0.170	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Beryllium, Total	0.166	J	mg/kg	0.489	0.032	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Cadmium, Total	0.352	J	mg/kg	0.979	0.096	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Calcium, Total	10100		mg/kg	9.79	3.42	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Chromium, Total	9.22		mg/kg	0.979	0.094	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Cobalt, Total	4.14		mg/kg	1.96	0.162	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Copper, Total	17.8		mg/kg	0.979	0.252	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Iron, Total	16000		mg/kg	4.89	0.884	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Lead, Total	83.0		mg/kg	4.89	0.262	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Magnesium, Total	2150		mg/kg	9.79	1.51	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Manganese, Total	254		mg/kg	0.979	0.156	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Mercury, Total	0.065	J	mg/kg	0.079	0.017	1	09/18/18 10:30	09/18/18 15:43	EPA 7471B	1,7471B	MG
Nickel, Total	10.3		mg/kg	2.45	0.237	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Potassium, Total	771		mg/kg	245	14.1	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Selenium, Total	0.734	J	mg/kg	1.96	0.252	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.979	0.277	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Sodium, Total	111	J	mg/kg	196	3.08	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.96	0.308	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Vanadium, Total	14.9		mg/kg	0.979	0.199	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
Zinc, Total	51.9		mg/kg	4.89	0.287	2	09/18/18 15:19	09/18/18 23:01	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.2		mg/kg	1.0	1.0	1		09/18/18 23:01	NA	107,-	



Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-03
 Client ID: EP09_14.5_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:00
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2680		mg/kg	9.90	2.67	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.95	0.376	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Arsenic, Total	1.46		mg/kg	0.990	0.206	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Barium, Total	36.6		mg/kg	0.990	0.172	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Beryllium, Total	0.089	J	mg/kg	0.495	0.033	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Cadmium, Total	0.109	J	mg/kg	0.990	0.097	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Calcium, Total	8210		mg/kg	9.90	3.46	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Chromium, Total	5.64		mg/kg	0.990	0.095	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Cobalt, Total	2.47		mg/kg	1.98	0.164	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Copper, Total	18.2		mg/kg	0.990	0.255	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Iron, Total	5360		mg/kg	4.95	0.894	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Lead, Total	63.8		mg/kg	4.95	0.265	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Magnesium, Total	1380		mg/kg	9.90	1.52	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Manganese, Total	128		mg/kg	0.990	0.157	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Mercury, Total	0.039	J	mg/kg	0.080	0.017	1	09/18/18 10:30	09/18/18 15:45	EPA 7471B	1,7471B	MG
Nickel, Total	5.60		mg/kg	2.47	0.240	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Potassium, Total	460		mg/kg	247	14.2	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Selenium, Total	0.346	J	mg/kg	1.98	0.255	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.990	0.280	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Sodium, Total	87.2	J	mg/kg	198	3.12	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.98	0.312	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Vanadium, Total	10.6		mg/kg	0.990	0.201	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
Zinc, Total	27.4		mg/kg	4.95	0.290	2	09/18/18 15:19	09/18/18 23:05	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.6		mg/kg	1.0	1.0	1		09/18/18 23:05	NA	107,-	



Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-04

Date Collected: 09/12/18 14:10

Client ID: EP11_14.5_091218

Date Received: 09/12/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5880		mg/kg	9.03	2.44	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Antimony, Total	0.858	J	mg/kg	4.52	0.343	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Arsenic, Total	3.51		mg/kg	0.903	0.188	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Barium, Total	78.4		mg/kg	0.903	0.157	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Beryllium, Total	0.199	J	mg/kg	0.452	0.030	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Cadmium, Total	0.298	J	mg/kg	0.903	0.089	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Calcium, Total	32600		mg/kg	9.03	3.16	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Chromium, Total	11.7		mg/kg	0.903	0.087	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Cobalt, Total	4.23		mg/kg	1.81	0.150	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Copper, Total	18.5		mg/kg	0.903	0.233	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Iron, Total	9490		mg/kg	4.52	0.816	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Lead, Total	168		mg/kg	4.52	0.242	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Magnesium, Total	3940		mg/kg	9.03	1.39	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Manganese, Total	221		mg/kg	0.903	0.144	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Mercury, Total	0.232		mg/kg	0.074	0.016	1	09/18/18 10:30	09/18/18 15:47	EPA 7471B	1,7471B	MG
Nickel, Total	9.46		mg/kg	2.26	0.218	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Potassium, Total	1170		mg/kg	226	13.0	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Selenium, Total	0.406	J	mg/kg	1.81	0.233	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.903	0.256	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Sodium, Total	314		mg/kg	181	2.84	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.81	0.284	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Vanadium, Total	17.6		mg/kg	0.903	0.183	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
Zinc, Total	67.5		mg/kg	4.52	0.265	2	09/18/18 15:19	09/18/18 23:10	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	0.94	0.94	1		09/18/18 23:10	NA	107,-	



Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-05
 Client ID: EP17_14.0_091218
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/12/18 14:20
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2850		mg/kg	8.45	2.28	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.22	0.321	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Arsenic, Total	1.35		mg/kg	0.845	0.176	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Barium, Total	38.0		mg/kg	0.845	0.147	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Beryllium, Total	0.093	J	mg/kg	0.422	0.028	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Cadmium, Total	0.144	J	mg/kg	0.845	0.083	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Calcium, Total	10700		mg/kg	8.45	2.96	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Chromium, Total	6.98		mg/kg	0.845	0.081	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Cobalt, Total	2.42		mg/kg	1.69	0.140	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Copper, Total	9.34		mg/kg	0.845	0.218	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Iron, Total	5310		mg/kg	4.22	0.763	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Lead, Total	49.2		mg/kg	4.22	0.226	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Magnesium, Total	1740		mg/kg	8.45	1.30	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Manganese, Total	159		mg/kg	0.845	0.134	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Mercury, Total	0.045	J	mg/kg	0.069	0.015	1	09/18/18 10:30	09/18/18 15:49	EPA 7471B	1,7471B	MG
Nickel, Total	5.61		mg/kg	2.11	0.204	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Potassium, Total	794		mg/kg	211	12.2	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Selenium, Total	0.338	J	mg/kg	1.69	0.218	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.845	0.239	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Sodium, Total	93.9	J	mg/kg	169	2.66	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.69	0.266	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Vanadium, Total	8.55		mg/kg	0.845	0.172	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
Zinc, Total	35.2		mg/kg	4.22	0.248	2	09/18/18 15:19	09/18/18 23:35	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.0		mg/kg	0.87	0.87	1		09/18/18 23:35	NA	107,-	



Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-06

Date Collected: 09/12/18 14:30

Client ID: EP23_13.5_091218

Date Received: 09/12/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

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	2440		mg/kg	8.54	2.30	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.27	0.324	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Arsenic, Total	1.37		mg/kg	0.854	0.178	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Barium, Total	34.8		mg/kg	0.854	0.148	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Beryllium, Total	0.102	J	mg/kg	0.427	0.028	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Cadmium, Total	0.120	J	mg/kg	0.854	0.084	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Calcium, Total	6890		mg/kg	8.54	2.99	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Chromium, Total	6.04		mg/kg	0.854	0.082	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Cobalt, Total	2.64		mg/kg	1.71	0.142	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Copper, Total	10.0		mg/kg	0.854	0.220	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Iron, Total	5560		mg/kg	4.27	0.771	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Lead, Total	75.2		mg/kg	4.27	0.229	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Magnesium, Total	1310		mg/kg	8.54	1.32	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Manganese, Total	170		mg/kg	0.854	0.136	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Mercury, Total	0.734		mg/kg	0.069	0.015	1	09/18/18 10:30	09/18/18 15:51	EPA 7471B	1,7471B	MG
Nickel, Total	6.58		mg/kg	2.13	0.207	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Potassium, Total	620		mg/kg	213	12.3	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Selenium, Total	0.410	J	mg/kg	1.71	0.220	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.854	0.242	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Sodium, Total	86.6	J	mg/kg	171	2.69	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.71	0.269	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Vanadium, Total	9.04		mg/kg	0.854	0.173	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
Zinc, Total	28.4		mg/kg	4.27	0.250	2	09/18/18 15:19	09/18/18 23:39	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.8	J	mg/kg	0.88	0.88	1		09/18/18 23:39	NA	107,-	



Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

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): 01-06 Batch: WG1158089-1									
Mercury, Total	ND	mg/kg	0.083	0.018	1	09/18/18 10:30	09/18/18 14:59	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1158179-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Antimony, Total	ND	mg/kg	2.00	0.152	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Barium, Total	ND	mg/kg	0.400	0.070	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Calcium, Total	ND	mg/kg	4.00	1.40	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Chromium, Total	ND	mg/kg	0.400	0.038	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Copper, Total	ND	mg/kg	0.400	0.103	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Iron, Total	0.720	J	mg/kg	2.00	0.361	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB
Lead, Total	ND	mg/kg	2.00	0.107	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Manganese, Total	0.140	J	mg/kg	0.400	0.064	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB
Nickel, Total	ND	mg/kg	1.00	0.097	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Potassium, Total	ND	mg/kg	100	5.76	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Selenium, Total	ND	mg/kg	0.800	0.103	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Silver, Total	ND	mg/kg	0.400	0.113	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Sodium, Total	2.81	J	mg/kg	80.0	1.26	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB
Thallium, Total	ND	mg/kg	0.800	0.126	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	
Zinc, Total	ND	mg/kg	2.00	0.117	1	09/18/18 15:19	09/18/18 20:50	1,6010D	AB	

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1836154

Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1158089-2 SRM Lot Number: D102-540								
Mercury, Total	95		-		65-134	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1836154

Report Date: 09/19/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1158179-2 SRM Lot Number: D102-540					
Aluminum, Total	62	-	49-150	-	
Antimony, Total	159	-	1-199	-	
Arsenic, Total	93	-	83-117	-	
Barium, Total	89	-	83-118	-	
Beryllium, Total	94	-	83-116	-	
Cadmium, Total	95	-	83-118	-	
Calcium, Total	84	-	82-118	-	
Chromium, Total	88	-	83-117	-	
Cobalt, Total	91	-	84-116	-	
Copper, Total	90	-	84-116	-	
Iron, Total	78	-	61-139	-	
Lead, Total	87	-	82-118	-	
Magnesium, Total	78	-	76-124	-	
Manganese, Total	94	-	82-118	-	
Nickel, Total	91	-	83-117	-	
Potassium, Total	74	-	70-130	-	
Selenium, Total	95	-	79-121	-	
Silver, Total	92	-	80-120	-	
Sodium, Total	93	-	74-126	-	
Thallium, Total	88	-	81-119	-	
Vanadium, Total	87	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1836154

Report Date: 09/19/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1158179-2 SRM Lot Number: D102-540					
Zinc, Total	88	-	81-118	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1158089-3 WG1158089-4 QC Sample: L1836070-01 Client ID: MS Sample												
Mercury, Total	3.44	0.176	4.34	511	Q	3.06	0	Q	80-120	35	Q	20

Matrix Spike Analysis Batch Quality Control

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits			
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1158179-3 WG1158179-4 QC Sample: L1836070-01 Client ID: MS Sample												
Aluminum, Total	158000	218	13200	0	Q	11800	0	Q	75-125	11	20	
Antimony, Total	57.1	54.6	138	148	Q	102	81		75-125	30	Q	20
Arsenic, Total	22.0	13.1	32.8	82		30.4	63	Q	75-125	8		20
Barium, Total	473.	218	835	166	Q	711	107		75-125	16		20
Beryllium, Total	0.164J	5.46	4.90	90		4.84	87		75-125	1		20
Cadmium, Total	24.6	5.56	28.8	75		26.4	32	Q	75-125	9		20
Calcium, Total	13200	1090	20800	696	Q	25400	1100	Q	75-125	20		20
Chromium, Total	628.	21.8	234	0	Q	1290	2980	Q	75-125	139	Q	20
Cobalt, Total	30.9	54.6	72.8	77		68.6	68	Q	75-125	6		20
Copper, Total	8630	27.3	14300	20800	Q	2070	0	Q	75-125	149	Q	20
Iron, Total	96200	109	90100	0	Q	85700	0	Q	75-125	5		20
Lead, Total	1650	55.6	1700	90		1480	0	Q	75-125	14		20
Magnesium, Total	1790	1090	3010	112		9590	704	Q	75-125	104	Q	20
Manganese, Total	1110	54.6	888	0	Q	938	0	Q	75-125	5		20
Nickel, Total	747.	54.6	440	0	Q	300	0	Q	75-125	38	Q	20
Potassium, Total	375.	1090	1700	121		1640	114		75-125	4		20
Selenium, Total	4.01	13.1	16.7	97		15.7	88		75-125	6		20
Silver, Total	6.62	32.7	39.5	100		44.4	114		75-125	12		20
Sodium, Total	219.	1090	1460	114		1420	108		75-125	3		20
Thallium, Total	ND	13.1	8.80	67	Q	8.54	64	Q	75-125	3		20
Vanadium, Total	50.4	54.6	79.0	52	Q	77.8	49	Q	75-125	2		20

Matrix Spike Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits			
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1158179-3 WG1158179-4 QC Sample: L1836070-01 Client ID: MS Sample												
Zinc, Total	8680	54.6	7960	0	Q	6150	0	Q	75-125	26	Q	20

INORGANICS & MISCELLANEOUS

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-01

Date Collected: 09/12/18 13:45

Client ID: EP03_15.0_091218

Date Received: 09/12/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4		%	0.100	NA	1	-	09/15/18 10:55	121,2540G	SB
Cyanide, Total	ND		mg/kg	1.0	0.22	1	09/13/18 23:24	09/14/18 10:54	1,9010C/9012B	LH
Chromium, Hexavalent	0.184	J	mg/kg	0.866	0.173	1	09/13/18 20:00	09/14/18 21:45	1,7196A	AJ



Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-02

Date Collected: 09/12/18 13:50

Client ID: EP06_15.5_091218

Date Received: 09/12/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.7		%	0.100	NA	1	-	09/15/18 10:55	121,2540G	SB
Cyanide, Total	ND		mg/kg	1.2	0.26	1	09/13/18 23:24	09/14/18 10:55	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.00	0.201	1	09/13/18 20:00	09/14/18 21:45	1,7196A	AJ



Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-03

Date Collected: 09/12/18 14:00

Client ID: EP09_14.5_091218

Date Received: 09/12/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.5		%	0.100	NA	1	-	09/15/18 10:55	121,2540G	SB
Cyanide, Total	ND		mg/kg	1.2	0.26	1	09/13/18 23:24	09/14/18 10:56	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.02	0.204	1	09/13/18 20:00	09/14/18 21:45	1,7196A	AJ



Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-04

Date Collected: 09/12/18 14:10

Client ID: EP11_14.5_091218

Date Received: 09/12/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	09/15/18 10:55	121,2540G	SB
Cyanide, Total	0.27	J	mg/kg	1.2	0.25	1	09/13/18 23:24	09/14/18 10:57	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.940	0.188	1	09/13/18 20:00	09/14/18 21:45	1,7196A	AJ



Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-05

Date Collected: 09/12/18 14:20

Client ID: EP17_14.0_091218

Date Received: 09/12/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.9		%	0.100	NA	1	-	09/15/18 10:55	121,2540G	SB
Cyanide, Total	ND		mg/kg	1.0	0.22	1	09/13/18 23:24	09/14/18 10:58	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.870	0.174	1	09/13/18 20:00	09/14/18 21:45	1,7196A	AJ



Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

SAMPLE RESULTS

Lab ID: L1836154-06

Date Collected: 09/12/18 14:30

Client ID: EP23_13.5_091218

Date Received: 09/12/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.2		%	0.100	NA	1	-	09/15/18 10:55	121,2540G	SB
Cyanide, Total	ND		mg/kg	1.0	0.22	1	09/13/18 23:24	09/14/18 10:59	1,9010C/9012B	LH
Chromium, Hexavalent	0.186	J	mg/kg	0.877	0.175	1	09/13/18 20:00	09/14/18 21:45	1,7196A	AJ



Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

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): 01-06 Batch: WG1156611-1									
Cyanide, Total	ND	mg/kg	0.96	0.20	1	09/13/18 23:24	09/14/18 10:43	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG1156754-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	09/13/18 20:00	09/14/18 21:45	1,7196A	AJ

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1836154

Report Date: 09/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG1156611-2 WG1156611-3								
Cyanide, Total	88		82		80-120	16		35
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG1156754-2								
Chromium, Hexavalent	84		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1156611-4 WG1156611-5 QC Sample: L1836238-01 Client ID: MS Sample												
Cyanide, Total	ND	11	9.7	86		6.4	56	Q	75-125	41	Q	35
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1156754-4 QC Sample: L1836154-01 Client ID: EP03_15.0_091218												
Chromium, Hexavalent	0.184J	927	929	100		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1836154

Report Date: 09/19/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1156754-6 QC Sample: L1836154-01 Client ID: EP03_15.0_091218						
Chromium, Hexavalent	0.184J	0.184J	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1157263-1 QC Sample: L1836154-01 Client ID: EP03_15.0_091218						
Solids, Total	92.4	92.6	%	0		20

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1836154-01A	Vial MeOH preserved	A	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1836154-01B	Vial water preserved	A	NA		4.2	Y	Absent	13-SEP-18 10:26	NYTCL-8260HLW(14)
L1836154-01C	Vial water preserved	A	NA		4.2	Y	Absent	13-SEP-18 10:26	NYTCL-8260HLW(14)
L1836154-01D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L1836154-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	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)
L1836154-01F	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		HEXCR-7196(30)
L1836154-01G	Glass 500ml/16oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1836154-02A	Vial MeOH preserved	A	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1836154-02B	Vial water preserved	A	NA		4.2	Y	Absent	13-SEP-18 10:26	NYTCL-8260HLW(14)
L1836154-02C	Vial water preserved	A	NA		4.2	Y	Absent	13-SEP-18 10:26	NYTCL-8260HLW(14)
L1836154-02D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L1836154-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	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)
L1836154-02F	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		HEXCR-7196(30)
L1836154-02G	Glass 500ml/16oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1836154-03A	Vial MeOH preserved	A	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1836154-03B	Vial water preserved	A	NA		4.2	Y	Absent	13-SEP-18 10:26	NYTCL-8260HLW(14)
L1836154-03C	Vial water preserved	A	NA		4.2	Y	Absent	13-SEP-18 10:26	NYTCL-8260HLW(14)

Project Name: 170500202

Lab Number: L1836154

Project Number: 170500202

Report Date: 09/19/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1836154-03D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L1836154-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	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)
L1836154-03F	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		HEXCR-7196(30)
L1836154-03G	Glass 500ml/16oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1836154-04A	Vial MeOH preserved	A	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1836154-04B	Vial water preserved	A	NA		4.2	Y	Absent	13-SEP-18 10:26	NYTCL-8260HLW(14)
L1836154-04C	Vial water preserved	A	NA		4.2	Y	Absent	13-SEP-18 10:26	NYTCL-8260HLW(14)
L1836154-04D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L1836154-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	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)
L1836154-04F	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		HEXCR-7196(30)
L1836154-04G	Glass 500ml/16oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1836154-05A	Vial MeOH preserved	A	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1836154-05B	Vial water preserved	A	NA		4.2	Y	Absent	13-SEP-18 10:26	NYTCL-8260HLW(14)
L1836154-05C	Vial water preserved	A	NA		4.2	Y	Absent	13-SEP-18 10:26	NYTCL-8260HLW(14)
L1836154-05D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L1836154-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	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)
L1836154-05F	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		HEXCR-7196(30)
L1836154-05G	Glass 500ml/16oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1836154-06A	Vial MeOH preserved	A	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1836154-06B	Vial water preserved	A	NA		4.2	Y	Absent	13-SEP-18 10:26	NYTCL-8260HLW(14)

Project Name: 170500202
Project Number: 170500202

Serial_No:09191817:00
Lab Number: L1836154
Report Date: 09/19/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1836154-06C	Vial water preserved	A	NA		4.2	Y	Absent	13-SEP-18 10:26	NYTCL-8260HLW(14)
L1836154-06D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L1836154-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	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)
L1836154-06F	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		HEXCR-7196(30)
L1836154-06G	Glass 500ml/16oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1836154-07A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1836154-07B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days



Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

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 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 exceedances 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: 170500202
Project Number: 170500202

Lab Number: L1836154
Report Date: 09/19/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



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: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, 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, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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 YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	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 of	Date Rec'd in Lab 9/12/18	ALPHA Job # L1836154																																																																													
		Project Information Project Name: 170500202 Project Location: Project # 170500202 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO #																																																																												
		Client Information Client: LANGAN Address: 360 W. 31ST ST ← 2 FLOOR Phone: 212-479-5400 Fax: Email: GWYEA@LANGAN.COM		Project Manager: GREG WYKA ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge																																																																												
Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:		ANALYSIS VOC'S SVOC'S, PEST, HERB PCB'S METALS HEX/TEI CHROM CYANIDE		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments																																																																														
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th colspan="3"></th> </tr> <tr> <th>Date</th> <th>Time</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>36154 -01</td> <td>EP03 12.5-091218</td> <td>09/12</td> <td>13:45</td> <td>SOIL</td> <td>DE</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>-02</td> <td>EP06-12-091218</td> <td>09/12</td> <td>13:50</td> <td>SOIL</td> <td>DE</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>-03</td> <td>EP09 13-091218</td> <td>09/12</td> <td>1400</td> <td>SOIL</td> <td>DE</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>-04</td> <td>EP11-13-091218</td> <td>09/12</td> <td>1410</td> <td>SOIL</td> <td>DE</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>-05</td> <td>EP17-13.5-091218</td> <td>09/12</td> <td>1420</td> <td>SOIL</td> <td>DE</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>-06</td> <td>EP23 14-091218</td> <td>09/12</td> <td>1430</td> <td>SOIL</td> <td>DE</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>-07</td> <td>TBOE - 091218</td> <td>09/12</td> <td>-</td> <td>-</td> <td>DE</td> <td>0</td> <td></td> <td></td> </tr> </tbody> </table>				ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials				Date	Time				36154 -01	EP03 12.5-091218	09/12	13:45	SOIL	DE	0	0	0	-02	EP06-12-091218	09/12	13:50	SOIL	DE	0	0	0	-03	EP09 13-091218	09/12	1400	SOIL	DE	0	0	0	-04	EP11-13-091218	09/12	1410	SOIL	DE	0	0	0	-05	EP17-13.5-091218	09/12	1420	SOIL	DE	0	0	0	-06	EP23 14-091218	09/12	1430	SOIL	DE	0	0	0	-07	TBOE - 091218	09/12	-	-	DE	0		
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-07	TBOE - 091218	09/12	-	-	DE	0																																																																												
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: Paul Maggella		Date/Time 9/12/18 01:05		Received By: Paul Maggella		Date/Time 9/13/18 01:05																																																																												



ANALYTICAL REPORT

Lab Number:	L1926886
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	06/24/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1926886-01	EP04_8.5_062019	SOIL	NY, NY 10027	06/20/19 12:15	06/20/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

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.

Total Metals

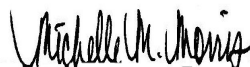
L1926886-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

The WG1251432-2 LCS recovery (79%), associated with L1926886-01, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 06/24/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

SAMPLE RESULTS

Lab ID: L1926886-01
 Client ID: EP04_8.5_062019
 Sample Location: NY, NY 10027

Date Collected: 06/20/19 12:15
 Date Received: 06/20/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/21/19 11:37
 Analyst: AD
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.21	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.18	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1926886

Project Number: 170500202

Report Date: 06/24/19

SAMPLE RESULTS

Lab ID: L1926886-01
 Client ID: EP04_8.5_062019
 Sample Location: NY, NY 10027

Date Collected: 06/20/19 12:15
 Date Received: 06/20/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.31	1
Xylenes, Total	ND		ug/kg	1.0	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.21	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

SAMPLE RESULTS

Lab ID: L1926886-01
Client ID: EP04_8.5_062019
Sample Location: NY, NY 10027

Date Collected: 06/20/19 12:15
Date Received: 06/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/19 07:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1251575-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/19 07:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1251575-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 06/21/19 07:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1251575-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1926886

Project Number: 170500202

Report Date: 06/24/19

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: WG1251575-3 WG1251575-4								
Methylene chloride	94		95		70-130	1		30
1,1-Dichloroethane	106		108		70-130	2		30
Chloroform	110		109		70-130	1		30
Carbon tetrachloride	111		113		70-130	2		30
1,2-Dichloropropane	108		107		70-130	1		30
Dibromochloromethane	105		106		70-130	1		30
1,1,2-Trichloroethane	110		108		70-130	2		30
Tetrachloroethene	113		113		70-130	0		30
Chlorobenzene	106		106		70-130	0		30
Trichlorofluoromethane	105		106		70-139	1		30
1,2-Dichloroethane	100		100		70-130	0		30
1,1,1-Trichloroethane	113		114		70-130	1		30
Bromodichloromethane	111		109		70-130	2		30
trans-1,3-Dichloropropene	108		109		70-130	1		30
cis-1,3-Dichloropropene	116		116		70-130	0		30
1,1-Dichloropropene	119		120		70-130	1		30
Bromoform	108		105		70-130	3		30
1,1,2,2-Tetrachloroethane	105		104		70-130	1		30
Benzene	112		113		70-130	1		30
Toluene	107		107		70-130	0		30
Ethylbenzene	109		110		70-130	1		30
Chloromethane	96		96		52-130	0		30
Bromomethane	102		104		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1926886

Project Number: 170500202

Report Date: 06/24/19

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: WG1251575-3 WG1251575-4								
Vinyl chloride	106		108		67-130	2		30
Chloroethane	113		117		50-151	3		30
1,1-Dichloroethene	116		118		65-135	2		30
trans-1,2-Dichloroethene	114		115		70-130	1		30
Trichloroethene	116		113		70-130	3		30
1,2-Dichlorobenzene	106		105		70-130	1		30
1,3-Dichlorobenzene	110		108		70-130	2		30
1,4-Dichlorobenzene	106		104		70-130	2		30
Methyl tert butyl ether	107		105		66-130	2		30
p/m-Xylene	112		112		70-130	0		30
o-Xylene	113		112		70-130	1		30
cis-1,2-Dichloroethene	114		113		70-130	1		30
Dibromomethane	108		111		70-130	3		30
Styrene	113		112		70-130	1		30
Dichlorodifluoromethane	108		108		30-146	0		30
Acetone	90		86		54-140	5		30
Carbon disulfide	110		111		59-130	1		30
2-Butanone	103		98		70-130	5		30
Vinyl acetate	97		100		70-130	3		30
4-Methyl-2-pentanone	99		99		70-130	0		30
1,2,3-Trichloropropane	103		100		68-130	3		30
2-Hexanone	89		88		70-130	1		30
Bromochloromethane	115		116		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1926886

Project Number: 170500202

Report Date: 06/24/19

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: WG1251575-3 WG1251575-4								
2,2-Dichloropropane	114		116		70-130	2		30
1,2-Dibromoethane	109		107		70-130	2		30
1,3-Dichloropropane	105		106		69-130	1		30
1,1,1,2-Tetrachloroethane	108		108		70-130	0		30
Bromobenzene	108		106		70-130	2		30
n-Butylbenzene	116		114		70-130	2		30
sec-Butylbenzene	112		112		70-130	0		30
tert-Butylbenzene	112		111		70-130	1		30
o-Chlorotoluene	90		90		70-130	0		30
p-Chlorotoluene	109		109		70-130	0		30
1,2-Dibromo-3-chloropropane	94		96		68-130	2		30
Hexachlorobutadiene	122		119		67-130	2		30
Isopropylbenzene	113		112		70-130	1		30
p-Isopropyltoluene	114		112		70-130	2		30
Naphthalene	109		106		70-130	3		30
Acrylonitrile	92		92		70-130	0		30
n-Propylbenzene	112		111		70-130	1		30
1,2,3-Trichlorobenzene	112		107		70-130	5		30
1,2,4-Trichlorobenzene	114		112		70-130	2		30
1,3,5-Trimethylbenzene	111		111		70-130	0		30
1,2,4-Trimethylbenzene	111		110		70-130	1		30
1,4-Dioxane	108		106		65-136	2		30
p-Diethylbenzene	115		114		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1926886

Report Date: 06/24/19

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: WG1251575-3 WG1251575-4								
p-Ethyltoluene	112		112		70-130	0		30
1,2,4,5-Tetramethylbenzene	113		112		70-130	1		30
Ethyl ether	113		113		67-130	0		30
trans-1,4-Dichloro-2-butene	96		96		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		95		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	101		99		70-130
Dibromofluoromethane	98		101		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

SAMPLE RESULTS

Lab ID: L1926886-01
 Client ID: EP04_8.5_062019
 Sample Location: NY, NY 10027

Date Collected: 06/20/19 12:15
 Date Received: 06/20/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/24/19 01:46
 Analyst: KR
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 06/21/19 11:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1926886

Project Number: 170500202

Report Date: 06/24/19

SAMPLE RESULTS

Lab ID: L1926886-01
 Client ID: EP04_8.5_062019
 Sample Location: NY, NY 10027

Date Collected: 06/20/19 12:15
 Date Received: 06/20/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

SAMPLE RESULTS

Lab ID: L1926886-01
 Client ID: EP04_8.5_062019
 Sample Location: NY, NY 10027

Date Collected: 06/20/19 12:15
 Date Received: 06/20/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	71		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/22/19 22:38
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/21/19 08:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1251402-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	29.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	29.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	25.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	32.
Di-n-octylphthalate	ND		ug/kg	170	57.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/22/19 22:38
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/21/19 08:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1251402-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	41.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	39.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	21.
2,4,6-Trichlorophenol	ND		ug/kg	100	32.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	63.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 06/22/19 22:38
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/21/19 08:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1251402-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	78.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	37.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
1,4-Dioxane	ND		ug/kg	25	7.7

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	98		10-136
4-Terphenyl-d14	93		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1926886

Project Number: 170500202

Report Date: 06/24/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1251402-2 WG1251402-3								
Acenaphthene	46		50		31-137	8		50
1,2,4-Trichlorobenzene	46		48		38-107	4		50
Hexachlorobenzene	49		53		40-140	8		50
Bis(2-chloroethyl)ether	45		47		40-140	4		50
2-Chloronaphthalene	46		48		40-140	4		50
1,2-Dichlorobenzene	46		48		40-140	4		50
1,3-Dichlorobenzene	44		46		40-140	4		50
1,4-Dichlorobenzene	44		46		28-104	4		50
3,3'-Dichlorobenzidine	89		92		40-140	3		50
2,4-Dinitrotoluene	53		59		40-132	11		50
2,6-Dinitrotoluene	52		55		40-140	6		50
Fluoranthene	49		56		40-140	13		50
4-Chlorophenyl phenyl ether	46		50		40-140	8		50
4-Bromophenyl phenyl ether	48		54		40-140	12		50
Bis(2-chloroisopropyl)ether	45		48		40-140	6		50
Bis(2-chloroethoxy)methane	48		50		40-117	4		50
Hexachlorobutadiene	46		50		40-140	8		50
Hexachlorocyclopentadiene	37	Q	41		40-140	10		50
Hexachloroethane	46		48		40-140	4		50
Isophorone	47		51		40-140	8		50
Naphthalene	46		49		40-140	6		50
Nitrobenzene	47		49		40-140	4		50
NDPA/DPA	48		52		36-157	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1926886

Project Number: 170500202

Report Date: 06/24/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1251402-2 WG1251402-3								
n-Nitrosodi-n-propylamine	49		52		32-121	6		50
Bis(2-ethylhexyl)phthalate	55		62		40-140	12		50
Butyl benzyl phthalate	55		61		40-140	10		50
Di-n-butylphthalate	56		63		40-140	12		50
Di-n-octylphthalate	59		65		40-140	10		50
Diethyl phthalate	50		55		40-140	10		50
Dimethyl phthalate	53		54		40-140	2		50
Benzo(a)anthracene	50		55		40-140	10		50
Benzo(a)pyrene	50		55		40-140	10		50
Benzo(b)fluoranthene	48		50		40-140	4		50
Benzo(k)fluoranthene	52		56		40-140	7		50
Chrysene	46		51		40-140	10		50
Acenaphthylene	50		52		40-140	4		50
Anthracene	50		55		40-140	10		50
Benzo(ghi)perylene	47		53		40-140	12		50
Fluorene	48		53		40-140	10		50
Phenanthrene	48		52		40-140	8		50
Dibenzo(a,h)anthracene	50		55		40-140	10		50
Indeno(1,2,3-cd)pyrene	51		55		40-140	8		50
Pyrene	48		54		35-142	12		50
Biphenyl	97		102		54-104	5		50
4-Chloroaniline	42		45		40-140	7		50
2-Nitroaniline	52		55		47-134	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1926886

Project Number: 170500202

Report Date: 06/24/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1251402-2 WG1251402-3								
3-Nitroaniline	43		43		26-129	0		50
4-Nitroaniline	47		53		41-125	12		50
Dibenzofuran	48		52		40-140	8		50
2-Methylnaphthalene	47		48		40-140	2		50
1,2,4,5-Tetrachlorobenzene	99		104		40-117	5		50
Acetophenone	101		104		14-144	3		50
2,4,6-Trichlorophenol	54		56		30-130	4		50
p-Chloro-m-cresol	53		55		26-103	4		50
2-Chlorophenol	50		52		25-102	4		50
2,4-Dichlorophenol	51		54		30-130	6		50
2,4-Dimethylphenol	51		52		30-130	2		50
2-Nitrophenol	50		52		30-130	4		50
4-Nitrophenol	57		57		11-114	0		50
2,4-Dinitrophenol	43		49		4-130	13		50
4,6-Dinitro-o-cresol	52		59		10-130	13		50
Pentachlorophenol	49		55		17-109	12		50
Phenol	45		48		26-90	6		50
2-Methylphenol	50		54		30-130.	8		50
3-Methylphenol/4-Methylphenol	50		53		30-130	6		50
2,4,5-Trichlorophenol	51		56		30-130	9		50
Benzoic Acid	80		87		10-110	8		50
Benzyl Alcohol	52		52		40-140	0		50
Carbazole	50	Q	56		54-128	11		50

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1251402-2 WG1251402-3								
1,4-Dioxane	78		78		40-140	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	96		100		25-120
Phenol-d6	99		104		10-120
Nitrobenzene-d5	94		99		23-120
2-Fluorobiphenyl	90		95		30-120
2,4,6-Tribromophenol	100		113		10-136
4-Terphenyl-d14	93		103		18-120

PCBS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

SAMPLE RESULTS

Lab ID: L1926886-01
 Client ID: EP04_8.5_062019
 Sample Location: NY, NY 10027

Date Collected: 06/20/19 12:15
 Date Received: 06/20/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/22/19 21:12
 Analyst: HT
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 06/21/19 09:46
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/21/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/21/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.2	3.03	1	A
Aroclor 1221	ND		ug/kg	34.2	3.42	1	A
Aroclor 1232	ND		ug/kg	34.2	7.24	1	A
Aroclor 1242	ND		ug/kg	34.2	4.60	1	A
Aroclor 1248	ND		ug/kg	34.2	5.12	1	A
Aroclor 1254	ND		ug/kg	34.2	3.74	1	A
Aroclor 1260	ND		ug/kg	34.2	6.31	1	A
Aroclor 1262	ND		ug/kg	34.2	4.34	1	A
Aroclor 1268	ND		ug/kg	34.2	3.54	1	A
PCBs, Total	ND		ug/kg	34.2	3.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 06/22/19 17:44
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 06/21/19 09:45
Cleanup Method: EPA 3665A
Cleanup Date: 06/21/19
Cleanup Method: EPA 3660B
Cleanup Date: 06/21/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1251436-1						
Aroclor 1016	ND		ug/kg	32.3	2.87	A
Aroclor 1221	ND		ug/kg	32.3	3.24	A
Aroclor 1232	ND		ug/kg	32.3	6.85	A
Aroclor 1242	ND		ug/kg	32.3	4.35	A
Aroclor 1248	ND		ug/kg	32.3	4.84	A
Aroclor 1254	ND		ug/kg	32.3	3.53	A
Aroclor 1260	ND		ug/kg	32.3	5.97	A
Aroclor 1262	ND		ug/kg	32.3	4.10	A
Aroclor 1268	ND		ug/kg	32.3	3.35	A
PCBs, Total	ND		ug/kg	32.3	2.87	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	65		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1251436-2 WG1251436-3									
Aroclor 1016	65		69		40-140	6		50	A
Aroclor 1260	60		62		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		73		30-150	A
Decachlorobiphenyl	59		64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		67		30-150	B
Decachlorobiphenyl	64		68		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

SAMPLE RESULTS

Lab ID: L1926886-01
Client ID: EP04_8.5_062019
Sample Location: NY, NY 10027

Date Collected: 06/20/19 12:15
Date Received: 06/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/24/19 15:04
Analyst: AMC
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 06/21/19 11:39
Cleanup Method: EPA 3620B
Cleanup Date: 06/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.330	1	A
Lindane	ND		ug/kg	0.702	0.314	1	A
Alpha-BHC	ND		ug/kg	0.702	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.639	1	A
Heptachlor	ND		ug/kg	0.843	0.378	1	A
Aldrin	ND		ug/kg	1.68	0.594	1	A
Heptachlor epoxide	ND		ug/kg	3.16	0.948	1	A
Endrin	ND		ug/kg	0.702	0.288	1	A
Endrin aldehyde	ND		ug/kg	2.11	0.738	1	A
Endrin ketone	ND		ug/kg	1.68	0.434	1	A
Dieldrin	ND		ug/kg	1.05	0.527	1	A
4,4'-DDE	ND		ug/kg	1.68	0.390	1	A
4,4'-DDD	ND		ug/kg	1.68	0.601	1	A
4,4'-DDT	ND		ug/kg	3.16	1.36	1	A
Endosulfan I	ND		ug/kg	1.68	0.398	1	A
Endosulfan II	ND		ug/kg	1.68	0.563	1	A
Endosulfan sulfate	ND		ug/kg	0.702	0.334	1	A
Methoxychlor	ND		ug/kg	3.16	0.983	1	A
Toxaphene	ND		ug/kg	31.6	8.85	1	A
cis-Chlordane	ND		ug/kg	2.11	0.587	1	A
trans-Chlordane	ND		ug/kg	2.11	0.556	1	A
Chlordane	ND		ug/kg	13.7	5.58	1	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

SAMPLE RESULTS

Lab ID: L1926886-01
 Client ID: EP04_8.5_062019
 Sample Location: NY, NY 10027

Date Collected: 06/20/19 12:15
 Date Received: 06/20/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	75		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	72		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

SAMPLE RESULTS

Lab ID: L1926886-01
 Client ID: EP04_8.5_062019
 Sample Location: NY, NY 10027

Date Collected: 06/20/19 12:15
 Date Received: 06/20/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/22/19 12:11
 Analyst: DGM
 Percent Solids: 93%
 Methylation Date: 06/21/19 23:23

Extraction Method: EPA 8151A
 Extraction Date: 06/21/19 03:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	178	11.2	1	A
2,4,5-T	ND		ug/kg	178	5.51	1	A
2,4,5-TP (Silvex)	ND		ug/kg	178	4.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	61		30-150	A
DCAA	60		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 06/21/19 10:02
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 06/21/19 00:21

Methylation Date: 06/21/19 07:59

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1251247-1						
2,4-D	ND		ug/kg	166	10.4	A
2,4,5-T	ND		ug/kg	166	5.14	A
2,4,5-TP (Silvex)	ND		ug/kg	166	4.41	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	89		30-150	A
DCAA	80		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 06/24/19 11:49
 Analyst: AMC

Extraction Method: EPA 3546
 Extraction Date: 06/21/19 11:39
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1251510-1						
Delta-BHC	ND		ug/kg	1.54	0.301	A
Lindane	ND		ug/kg	0.641	0.287	A
Alpha-BHC	ND		ug/kg	0.641	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.584	A
Heptachlor	ND		ug/kg	0.770	0.345	A
Aldrin	ND		ug/kg	1.54	0.542	A
Heptachlor epoxide	ND		ug/kg	2.89	0.866	A
Endrin	ND		ug/kg	0.641	0.263	A
Endrin aldehyde	ND		ug/kg	1.92	0.674	A
Endrin ketone	ND		ug/kg	1.54	0.396	A
Dieldrin	ND		ug/kg	0.962	0.481	A
4,4'-DDE	ND		ug/kg	1.54	0.356	A
4,4'-DDD	ND		ug/kg	1.54	0.549	A
4,4'-DDT	ND		ug/kg	2.89	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.364	A
Endosulfan II	ND		ug/kg	1.54	0.514	A
Endosulfan sulfate	ND		ug/kg	0.641	0.305	A
Methoxychlor	ND		ug/kg	2.89	0.898	A
Toxaphene	ND		ug/kg	28.9	8.08	A
cis-Chlordane	ND		ug/kg	1.92	0.536	A
trans-Chlordane	ND		ug/kg	1.92	0.508	A
Chlordane	ND		ug/kg	12.5	5.10	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 06/24/19 11:49
 Analyst: AMC

Extraction Method: EPA 3546
 Extraction Date: 06/21/19 11:39
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1251510-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	80		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	71		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1251247-2 WG1251247-3									
2,4-D	97		101		30-150	4		30	A
2,4,5-T	96		101		30-150	5		30	A
2,4,5-TP (Silvex)	103		108		30-150	5		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	86		88		30-150	A
DCAA	81		82		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1926886

Report Date: 06/24/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1251510-2 WG1251510-3									
Delta-BHC	79		85		30-150	7		30	A
Lindane	78		84		30-150	7		30	A
Alpha-BHC	84		90		30-150	7		30	A
Beta-BHC	73		78		30-150	7		30	A
Heptachlor	78		82		30-150	5		30	A
Aldrin	76		81		30-150	6		30	A
Heptachlor epoxide	74		79		30-150	7		30	A
Endrin	81		85		30-150	5		30	A
Endrin aldehyde	59		61		30-150	3		30	A
Endrin ketone	68		69		30-150	1		30	A
Dieldrin	82		88		30-150	7		30	A
4,4'-DDE	76		80		30-150	5		30	A
4,4'-DDD	76		80		30-150	5		30	A
4,4'-DDT	75		79		30-150	5		30	A
Endosulfan I	72		77		30-150	7		30	A
Endosulfan II	75		79		30-150	5		30	A
Endosulfan sulfate	58		61		30-150	5		30	A
Methoxychlor	82		85		30-150	4		30	A
cis-Chlordane	69		74		30-150	7		30	A
trans-Chlordane	62		86		30-150	32	Q	30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1926886

Project Number: 170500202

Report Date: 06/24/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1251510-2 WG1251510-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	60		63		30-150	B
Decachlorobiphenyl	76		79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		68		30-150	A
Decachlorobiphenyl	72		56		30-150	A

METALS

Project Name: 300 WEST 122ND ST.

Lab Number: L1926886

Project Number: 170500202

Report Date: 06/24/19

SAMPLE RESULTS

Lab ID: L1926886-01
 Client ID: EP04_8.5_062019
 Sample Location: NY, NY 10027

Date Collected: 06/20/19 12:15
 Date Received: 06/20/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1400		mg/kg	8.35	2.25	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.17	0.317	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Arsenic, Total	0.476	J	mg/kg	0.835	0.174	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Barium, Total	9.27		mg/kg	0.835	0.145	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Beryllium, Total	0.100	J	mg/kg	0.417	0.028	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Cadmium, Total	0.150	J	mg/kg	0.835	0.082	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Calcium, Total	796		mg/kg	8.35	2.92	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Chromium, Total	4.18		mg/kg	0.835	0.080	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Cobalt, Total	1.86		mg/kg	1.67	0.138	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Copper, Total	7.01		mg/kg	0.835	0.215	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Iron, Total	4210		mg/kg	4.17	0.754	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Lead, Total	3.99	J	mg/kg	4.17	0.224	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Magnesium, Total	935		mg/kg	8.35	1.28	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Manganese, Total	31.6		mg/kg	0.835	0.133	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.079	0.051	1	06/22/19 16:10	06/24/19 12:27	EPA 7471B	1,7471B	GD
Nickel, Total	4.82		mg/kg	2.09	0.202	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Potassium, Total	334		mg/kg	209	12.0	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.67	0.215	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.835	0.236	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Sodium, Total	40.6	J	mg/kg	167	2.63	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.67	0.263	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Vanadium, Total	5.26		mg/kg	0.835	0.169	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
Zinc, Total	7.82		mg/kg	4.17	0.244	2	06/21/19 20:21	06/24/19 12:43	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.2		mg/kg	0.86	0.87	1		06/24/19 12:43	NA	107,-	



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

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): 01 Batch: WG1251666-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Iron, Total	ND		mg/kg	2.00	0.361	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Lead, Total	0.112	J	mg/kg	2.00	0.107	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Sodium, Total	4.60	J	mg/kg	80.0	1.26	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	06/21/19 20:21	06/24/19 11:31	1,6010D	LC

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): 01 Batch: WG1251912-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	06/22/19 16:10	06/24/19 11:55	1,7471B	GD



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1926886

Report Date: 06/24/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1251666-2 SRM Lot Number: D105-540								
Aluminum, Total	57		-		51-149	-		
Antimony, Total	153		-		19-249	-		
Arsenic, Total	101		-		70-130	-		
Barium, Total	85		-		75-125	-		
Beryllium, Total	89		-		75-125	-		
Cadmium, Total	99		-		75-125	-		
Calcium, Total	81		-		73-127	-		
Chromium, Total	87		-		70-130	-		
Cobalt, Total	96		-		75-125	-		
Copper, Total	89		-		75-125	-		
Iron, Total	72		-		38-162	-		
Lead, Total	93		-		71-128	-		
Magnesium, Total	75		-		63-137	-		
Manganese, Total	84		-		76-124	-		
Nickel, Total	97		-		70-131	-		
Potassium, Total	71		-		60-140	-		
Selenium, Total	99		-		63-137	-		
Silver, Total	89		-		69-131	-		
Sodium, Total	94		-		37-162	-		
Thallium, Total	95		-		68-132	-		
Vanadium, Total	86		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1926886

Report Date: 06/24/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1251666-2 SRM Lot Number: D105-540					
Zinc, Total	96	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1251912-2 SRM Lot Number: D105-540					
Mercury, Total	95	-	60-141	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1926886

Project Number: 170500202

Report Date: 06/24/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1251666-3 QC Sample: L1926676-01 Client ID: MS Sample												
Aluminum, Total	5200	160	5800	375	Q	-	-		75-125	-		20
Antimony, Total	ND	40	35.6	89		-	-		75-125	-		20
Arsenic, Total	1.96	9.61	11.2	96		-	-		75-125	-		20
Barium, Total	66.2	160	208	88		-	-		75-125	-		20
Beryllium, Total	0.099J	4	3.65	91		-	-		75-125	-		20
Cadmium, Total	0.610J	4.08	4.40	108		-	-		75-125	-		20
Calcium, Total	10300	801	12100	225	Q	-	-		75-125	-		20
Chromium, Total	15.5	16	29.4	87		-	-		75-125	-		20
Cobalt, Total	5.95	40	40.5	86		-	-		75-125	-		20
Copper, Total	51.7	20	55.4	18	Q	-	-		75-125	-		20
Iron, Total	12100	80.1	11900	0	Q	-	-		75-125	-		20
Lead, Total	98.3	40.8	118	48	Q	-	-		75-125	-		20
Magnesium, Total	5290	801	6430	142	Q	-	-		75-125	-		20
Manganese, Total	216	40	256	100		-	-		75-125	-		20
Nickel, Total	14.5	40	46.2	79		-	-		75-125	-		20
Potassium, Total	774	801	1420	81		-	-		75-125	-		20
Selenium, Total	ND	9.61	8.92	93		-	-		75-125	-		20
Silver, Total	ND	24	22.2	92		-	-		75-125	-		20
Sodium, Total	138J	801	853	106		-	-		75-125	-		20
Thallium, Total	ND	9.61	7.26	76		-	-		75-125	-		20
Vanadium, Total	23.9	40	60.5	91		-	-		75-125	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1926886

Project Number: 170500202

Report Date: 06/24/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1251666-3 QC Sample: L1926676-01 Client ID: MS Sample									
Zinc, Total	207	40	144	0	Q	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1251912-3 QC Sample: L1926676-03 Client ID: MS Sample									
Mercury, Total	ND	0.155	0.161	104	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1926886

Report Date: 06/24/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1251666-4 QC Sample: L1926676-01 Client ID: DUP Sample						
Aluminum, Total	5200	5230	mg/kg	1		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	1.96	2.24	mg/kg	13		20
Barium, Total	66.2	78.1	mg/kg	16		20
Beryllium, Total	0.099J	0.049J	mg/kg	NC		20
Cadmium, Total	0.610J	0.704J	mg/kg	NC		20
Calcium, Total	10300	7860	mg/kg	27	Q	20
Chromium, Total	15.5	14.2	mg/kg	9		20
Cobalt, Total	5.95	5.57	mg/kg	7		20
Copper, Total	51.7	49.0	mg/kg	5		20
Iron, Total	12100	13800	mg/kg	13		20
Lead, Total	98.3	105	mg/kg	7		20
Magnesium, Total	5290	3590	mg/kg	38	Q	20
Manganese, Total	216	234	mg/kg	8		20
Nickel, Total	14.5	11.9	mg/kg	20		20
Potassium, Total	774	790	mg/kg	2		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	138J	138J	mg/kg	NC		20

Lab Duplicate Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1926886

Report Date: 06/24/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1251666-4 QC Sample: L1926676-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	23.9	25.7	mg/kg	7	20
Zinc, Total	207	141	mg/kg	38 Q	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1251912-4 QC Sample: L1926676-03 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/kg	NC	20



INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

SAMPLE RESULTS

Lab ID: L1926886-01
Client ID: EP04_8.5_062019
Sample Location: NY, NY 10027

Date Collected: 06/20/19 12:15
Date Received: 06/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.5		%	0.100	NA	1	-	06/21/19 03:32	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.21	1	06/21/19 10:55	06/21/19 14:37	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.865	0.173	1	06/21/19 15:30	06/21/19 20:00	1,7196A	NH



Project Name: 300 WEST 122ND ST.

Lab Number: L1926886

Project Number: 170500202

Report Date: 06/24/19

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): 01 Batch: WG1251432-1									
Cyanide, Total	ND	mg/kg	0.97	0.20	1	06/21/19 10:55	06/21/19 14:21	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1251628-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	06/21/19 15:30	06/21/19 20:00	1,7196A	NH

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1251432-2 WG1251432-3								
Cyanide, Total	79	Q	84		80-120	4		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1251628-2								
Chromium, Hexavalent	94		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1926886

Project Number: 170500202

Report Date: 06/24/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1251432-4 WG1251432-5 QC Sample: L1926886-01 Client ID: EP04_8.5_062019												
Cyanide, Total	ND	10	10	100		10	96		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1251628-4 QC Sample: L1926886-01 Client ID: EP04_8.5_062019												
Chromium, Hexavalent	ND	1120	1180	105		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1926886

Report Date: 06/24/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1251255-1 QC Sample: L1926902-01 Client ID: DUP Sample						
Solids, Total	89.4	90.8	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1251628-6 QC Sample: L1926886-01 Client ID: EP04_8.5_062019						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Serial_No:06241916:39
Lab Number: L1926886
Report Date: 06/24/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1926886-01A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1926886-01B	Vial water preserved	A	NA		2.2	Y	Absent	21-JUN-19 03:17	NYTCL-8260HLW(14)
L1926886-01C	Vial water preserved	A	NA		2.2	Y	Absent	21-JUN-19 03:17	NYTCL-8260HLW(14)
L1926886-01D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1926886-01E	Glass 60mL/2oz unpreserved	A	NA		2.2	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)
L1926886-01F	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1926886-01G	Glass 500ml/16oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

- 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

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1926886
Report Date: 06/24/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 <p>NEW YORK CHAIN OF CUSTODY</p> <p>Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193</p> <p>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288</p>		<p>Service Centers</p> <p>Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105</p>		<p>Page <u>1</u> of <u>1</u></p>		<p>Date Rec'd in Lab <u>6/21/19</u></p>		<p>ALPHA Job # <u>L192686</u></p>					
<p>Project Information</p> <p>Project Name: <u>300 West 122nd St.</u> Project Location: <u>NY, NY 10027</u> Project # <u>170500202</u></p>				<p>Deliverables</p> <p><input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other</p>		<p>Billing Information</p> <p><input checked="" type="checkbox"/> Same as Client Info PO #</p>							
<p>Client Information</p> <p>Client: <u>LANGAN, DPC</u> Address: <u>300 W. 31st St, Floor 8 NY, NY 10001</u> Phone: <u>212-479-5400</u> Fax: <u>G.WYKA@LANGAN.COM</u> Email: <u>G.WYKA@LANGAN.COM</u></p>				<p>(Use Project name as Project #) <input type="checkbox"/></p> <p>Project Manager: <u>Greg Wyka</u> ALPHAQuote #: Turn-Around Time Standard <input type="checkbox"/> Due Date: <u>6/24/19</u> Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days: <u>2</u></p>		<p>Regulatory Requirement</p> <p><input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other <u>TCL</u> <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge</p>		<p>Disposal Site Information</p> <p>Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:</p>					
<p>These samples have been previously analyzed by Alpha <input type="checkbox"/></p> <p>Other project specific requirements/comments:</p>				<p>ANALYSIS</p>		<p>Sample Filtration</p> <p><input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)</p>		<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Bottles</p>					
<p>Please specify Metals or TAL.</p>				<p>Part 375 / TCL 100's Slugs PCBs Pest/herb TLC in talc + hex/tri Chromium + bot. deposits</p>		<p>Sample Specific Comments</p> <p>(3) Vials, (1) plastic, (1) 2oz. AA, (1) 4oz. AA, (1) 16 oz AA</p>							
<p>ALPHA Lab ID (Lab Use Only)</p>		<p>Sample ID</p>		<p>Collection</p> <p>Date Time</p>		<p>Sample Matrix</p>		<p>Sampler's Initials</p>		<p>Analysis Results</p>		<p>Sample Specific Comments</p>	
<p><u>26886-01</u></p>		<p><u>EPD4-8.5-062019</u></p>		<p><u>6/20/19 1215</u></p>		<p><u>SOIL</u></p>		<p><u>AS</u></p>		<p><u>XXXXXX</u></p>		<p><u>(3) Vials, (1) plastic, (1) 2oz. AA, (1) 4oz. AA, (1) 16 oz AA</u></p>	
<p>Preservative Code: A = None B = HCl C = HNO₃ D = H₂SO₄ E = NaOH F = MeOH G = NaHSO₄ H = Na₂S₂O₃ K/E = Zn Ac/NaOH O = Other</p>		<p>Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle</p>		<p>Westboro: Certification No: MA935 Mansfield: Certification No: MA015</p>		<p>Container Type</p>		<p>Preservative</p>		<p>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.)</p>			
<p>Relinquished By:</p>		<p>Date/Time</p>		<p>Received By:</p>		<p>Date/Time</p>							
<p><u>[Signature]</u></p>		<p><u>6/20/19 1405</u></p>		<p><u>[Signature]</u></p>		<p><u>6/20/19 1405</u></p>							
<p><u>[Signature]</u></p>		<p><u>6/20/19 1810</u></p>		<p><u>[Signature]</u></p>		<p><u>6/20/19 1955</u></p>							
<p><u>[Signature]</u></p>		<p><u>6/21/19 0105</u></p>		<p><u>[Signature]</u></p>		<p><u>6/21/19 0105</u></p>							

JOB: L1939948 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
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
1040: Metals Matrix Spike Report - OK
1050: Metals Duplicate Report - OK
1180: Inorganics Cover Page - OK
1200: Wet Chemistry Sample Results - OK
1210: Wet Chemistry Method Blank Report - OK
1220: Wet Chemistry LCS Report - OK
1240: Wet Chemistry Matrix Spike Report - OK
1250: Wet Chemistry Duplicate Report - OK
5100: Sample Receipt & Container Information Report - OK
5200: Glossary - OK
5400: References - OK

No results found for sample L1939948-02 for product NYTCL-8260



ANALYTICAL REPORT

Lab Number:	L1939948
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND STREET
Project Number:	170500202
Report Date:	09/05/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1939948-01	EP05_9.0_090319	SOIL	MANHATTAN, NY	09/03/19 13:45	09/03/19
L1939948-02	PM_GW07_090319	WATER	MANHATTAN, NY	09/03/19 13:10	09/03/19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Case Narrative (continued)

Report Submission

September 05, 2019: This is a preliminary report.

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

Semivolatile Organics

The WG1279865-2/-3 LCS/LCSD recoveries, associated with L1939948-01, are below the individual acceptance criteria for 3,3'-dichlorobenzidine (39%/38%), but within the overall method allowances. The results of the associated samples are reported.

The WG1279865-2/-3 LCS/LCSD recoveries, associated with L1939948-01, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Total Metals

L1939948-01: 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.

The WG1279932-3 MS recoveries for aluminum (463%) and iron (1000%), performed on L1939948-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1279932-4 Laboratory Duplicate RPDs for chromium (40%), copper (25%), nickel (30%), vanadium (45%) and zinc (29%), performed on L1939948-01, are outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Cyanide, Total

The WG1279929-2/-3 LCS/LCSD recoveries (57%/68%), associated with L1939948-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

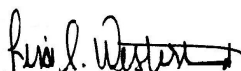
Case Narrative (continued)

Hexavalent Chromium

The WG1279930-2 LCS recovery (77%), associated with L1939948-01, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:



Lisa Westerlind

Title: Technical Director/Representative

Date: 09/05/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/04/19 09:40
 Analyst: JC
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.92	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.92	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.92	0.11	1
Dibromochloromethane	ND		ug/kg	0.92	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	0.24	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.14	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.92	0.50	1
Ethylbenzene	ND		ug/kg	0.92	0.13	1
Chloromethane	ND		ug/kg	3.7	0.85	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.92	0.31	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1

Project Name: 300 WEST 122ND STREET**Lab Number:** L1939948**Project Number:** 170500202**Report Date:** 09/05/19**SAMPLE RESULTS**

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.92	0.27	1
Xylenes, Total	ND		ug/kg	0.92	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.92	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.92	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.84	1
Acetone	22		ug/kg	9.2	4.4	1
Carbon disulfide	ND		ug/kg	9.2	4.2	1
2-Butanone	ND		ug/kg	9.2	2.0	1
Vinyl acetate	ND		ug/kg	9.2	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.2	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.92	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.92	0.15	1
sec-Butylbenzene	ND		ug/kg	0.92	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.18	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.91	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.15	1
Isopropylbenzene	ND		ug/kg	0.92	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.10	1
Naphthalene	ND		ug/kg	3.7	0.60	1
Acrylonitrile	ND		ug/kg	3.7	1.0	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
Client ID: EP05_9.0_090319
Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
Date Received: 09/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.92	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.31	1
1,4-Dioxane	ND		ug/kg	73	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.18	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/04/19 07:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1280099-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.16	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/04/19 07:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1280099-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.35	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 09/04/19 07:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1280099-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	88		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1280099-3 WG1280099-4								
Methylene chloride	92		93		70-130	1		30
1,1-Dichloroethane	110		109		70-130	1		30
Chloroform	104		105		70-130	1		30
Carbon tetrachloride	105		105		70-130	0		30
1,2-Dichloropropane	114		114		70-130	0		30
Dibromochloromethane	103		105		70-130	2		30
1,1,2-Trichloroethane	107		109		70-130	2		30
Tetrachloroethene	110		111		70-130	1		30
Chlorobenzene	105		107		70-130	2		30
Trichlorofluoromethane	96		96		70-139	0		30
1,2-Dichloroethane	103		103		70-130	0		30
1,1,1-Trichloroethane	104		104		70-130	0		30
Bromodichloromethane	103		103		70-130	0		30
trans-1,3-Dichloropropene	114		116		70-130	2		30
cis-1,3-Dichloropropene	112		113		70-130	1		30
1,1-Dichloropropene	114		112		70-130	2		30
Bromoform	108		107		70-130	1		30
1,1,1,2-Tetrachloroethane	108		108		70-130	0		30
Benzene	106		105		70-130	1		30
Toluene	111		112		70-130	1		30
Ethylbenzene	114		115		70-130	1		30
Chloromethane	81		82		52-130	1		30
Bromomethane	69		72		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1280099-3 WG1280099-4								
Vinyl chloride	81		81		67-130	0		30
Chloroethane	80		80		50-151	0		30
1,1-Dichloroethene	99		99		65-135	0		30
trans-1,2-Dichloroethene	104		105		70-130	1		30
Trichloroethene	103		102		70-130	1		30
1,2-Dichlorobenzene	105		106		70-130	1		30
1,3-Dichlorobenzene	110		107		70-130	3		30
1,4-Dichlorobenzene	107		107		70-130	0		30
Methyl tert butyl ether	106		107		66-130	1		30
p/m-Xylene	114		114		70-130	0		30
o-Xylene	113		114		70-130	1		30
cis-1,2-Dichloroethene	104		104		70-130	0		30
Dibromomethane	98		100		70-130	2		30
Styrene	117		121		70-130	3		30
Dichlorodifluoromethane	46		45		30-146	2		30
Acetone	103		102		54-140	1		30
Carbon disulfide	92		92		59-130	0		30
2-Butanone	112		113		70-130	1		30
Vinyl acetate	117		117		70-130	0		30
4-Methyl-2-pentanone	128		128		70-130	0		30
1,2,3-Trichloropropane	108		108		68-130	0		30
2-Hexanone	118		120		70-130	2		30
Bromochloromethane	97		99		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1280099-3 WG1280099-4								
2,2-Dichloropropane	109		108		70-130	1		30
1,2-Dibromoethane	106		107		70-130	1		30
1,3-Dichloropropane	110		113		69-130	3		30
1,1,1,2-Tetrachloroethane	104		106		70-130	2		30
Bromobenzene	107		105		70-130	2		30
n-Butylbenzene	121		119		70-130	2		30
sec-Butylbenzene	117		115		70-130	2		30
tert-Butylbenzene	116		114		70-130	2		30
o-Chlorotoluene	115		114		70-130	1		30
p-Chlorotoluene	117		116		70-130	1		30
1,2-Dibromo-3-chloropropane	107		104		68-130	3		30
Hexachlorobutadiene	115		114		67-130	1		30
Isopropylbenzene	117		115		70-130	2		30
p-Isopropyltoluene	118		117		70-130	1		30
Naphthalene	112		112		70-130	0		30
Acrylonitrile	124		126		70-130	2		30
n-Propylbenzene	116		114		70-130	2		30
1,2,3-Trichlorobenzene	113		113		70-130	0		30
1,2,4-Trichlorobenzene	114		113		70-130	1		30
1,3,5-Trimethylbenzene	117		116		70-130	1		30
1,2,4-Trimethylbenzene	117		118		70-130	1		30
1,4-Dioxane	107		111		65-136	4		30
p-Diethylbenzene	124		121		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1939948

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1280099-3 WG1280099-4								
p-Ethyltoluene	123		121		70-130	2		30
1,2,4,5-Tetramethylbenzene	122		121		70-130	1		30
Ethyl ether	101		102		67-130	1		30
trans-1,4-Dichloro-2-butene	120		122		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		96		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	91		91		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/04/19 15:25
 Analyst: EK
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 09/04/19 01:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	24	J	ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: 300 WEST 122ND STREET**Lab Number:** L1939948**Project Number:** 170500202**Report Date:** 09/05/19**SAMPLE RESULTS**

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	26	J	ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	65		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/04/19 13:56
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 09/04/19 01:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1279865-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/04/19 13:56
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 09/04/19 01:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1279865-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 09/04/19 13:56
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 09/04/19 01:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1279865-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	42		23-120
2-Fluorobiphenyl	45		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	60		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1279865-2 WG1279865-3								
Acenaphthene	56		55		31-137	2		50
1,2,4-Trichlorobenzene	58		55		38-107	5		50
Hexachlorobenzene	56		55		40-140	2		50
Bis(2-chloroethyl)ether	56		53		40-140	6		50
2-Chloronaphthalene	57		56		40-140	2		50
1,2-Dichlorobenzene	59		54		40-140	9		50
1,3-Dichlorobenzene	58		54		40-140	7		50
1,4-Dichlorobenzene	58		54		28-104	7		50
3,3'-Dichlorobenzidine	39	Q	38	Q	40-140	3		50
2,4-Dinitrotoluene	56		55		40-132	2		50
2,6-Dinitrotoluene	62		61		40-140	2		50
Fluoranthene	57		56		40-140	2		50
4-Chlorophenyl phenyl ether	56		54		40-140	4		50
4-Bromophenyl phenyl ether	60		53		40-140	12		50
Bis(2-chloroisopropyl)ether	55		51		40-140	8		50
Bis(2-chloroethoxy)methane	60		54		40-117	11		50
Hexachlorobutadiene	57		54		40-140	5		50
Hexachlorocyclopentadiene	48		47		40-140	2		50
Hexachloroethane	60		56		40-140	7		50
Isophorone	63		59		40-140	7		50
Naphthalene	54		53		40-140	2		50
Nitrobenzene	61		53		40-140	14		50
NDPA/DPA	57		55		36-157	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1279865-2 WG1279865-3								
n-Nitrosodi-n-propylamine	62		58		32-121	7		50
Bis(2-ethylhexyl)phthalate	73		71		40-140	3		50
Butyl benzyl phthalate	63		62		40-140	2		50
Di-n-butylphthalate	63		62		40-140	2		50
Di-n-octylphthalate	73		71		40-140	3		50
Diethyl phthalate	63		60		40-140	5		50
Dimethyl phthalate	61		59		40-140	3		50
Benzo(a)anthracene	53		52		40-140	2		50
Benzo(a)pyrene	54		51		40-140	6		50
Benzo(b)fluoranthene	55		53		40-140	4		50
Benzo(k)fluoranthene	61		58		40-140	5		50
Chrysene	54		54		40-140	0		50
Acenaphthylene	57		56		40-140	2		50
Anthracene	60		59		40-140	2		50
Benzo(ghi)perylene	54		52		40-140	4		50
Fluorene	58		57		40-140	2		50
Phenanthrene	55		54		40-140	2		50
Dibenzo(a,h)anthracene	54		55		40-140	2		50
Indeno(1,2,3-cd)pyrene	53		52		40-140	2		50
Pyrene	54		53		35-142	2		50
Biphenyl	60		60		37-127	0		50
4-Chloroaniline	67		60		40-140	11		50
2-Nitroaniline	60		59		47-134	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1279865-2 WG1279865-3								
3-Nitroaniline	48		47		26-129	2		50
4-Nitroaniline	49		45		41-125	9		50
Dibenzofuran	55		54		40-140	2		50
2-Methylnaphthalene	57		56		40-140	2		50
1,2,4,5-Tetrachlorobenzene	54		52		40-117	4		50
Acetophenone	67		63		14-144	6		50
2,4,6-Trichlorophenol	56		55		30-130	2		50
p-Chloro-m-cresol	64		63		26-103	2		50
2-Chlorophenol	60		58		25-102	3		50
2,4-Dichlorophenol	61		56		30-130	9		50
2,4-Dimethylphenol	66		63		30-130	5		50
2-Nitrophenol	61		58		30-130	5		50
4-Nitrophenol	46		44		11-114	4		50
2,4-Dinitrophenol	27		32		4-130	17		50
4,6-Dinitro-o-cresol	48		44		10-130	9		50
Pentachlorophenol	44		42		17-109	5		50
Phenol	63		60		26-90	5		50
2-Methylphenol	61		58		30-130	5		50
3-Methylphenol/4-Methylphenol	65		60		30-130	8		50
2,4,5-Trichlorophenol	55		53		30-130	4		50
Benzoic Acid	0	Q	0	Q	10-110	NC		50
Benzyl Alcohol	59		57		40-140	3		50
Carbazole	56		54		54-128	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1279865-2 WG1279865-3								
1,4-Dioxane	52		48		40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		57		25-120
Phenol-d6	61		57		10-120
Nitrobenzene-d5	51		46		23-120
2-Fluorobiphenyl	47		45		30-120
2,4,6-Tribromophenol	60		59		10-136
4-Terphenyl-d14	46		45		18-120

PCBS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/04/19 15:15
 Analyst: KB
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 09/04/19 02:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/04/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/04/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	32.8	2.91	1	A
Aroclor 1221	ND		ug/kg	32.8	3.29	1	A
Aroclor 1232	ND		ug/kg	32.8	6.96	1	A
Aroclor 1242	ND		ug/kg	32.8	4.42	1	A
Aroclor 1248	ND		ug/kg	32.8	4.92	1	A
Aroclor 1254	ND		ug/kg	32.8	3.59	1	A
Aroclor 1260	ND		ug/kg	32.8	6.06	1	A
Aroclor 1262	ND		ug/kg	32.8	4.17	1	A
Aroclor 1268	ND		ug/kg	32.8	3.40	1	A
PCBs, Total	ND		ug/kg	32.8	2.91	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 09/04/19 17:14
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 09/04/19 00:33
Cleanup Method: EPA 3665A
Cleanup Date: 09/04/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/04/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1279857-1						
Aroclor 1016	ND		ug/kg	32.7	2.90	A
Aroclor 1221	ND		ug/kg	32.7	3.27	A
Aroclor 1232	ND		ug/kg	32.7	6.93	A
Aroclor 1242	ND		ug/kg	32.7	4.40	A
Aroclor 1248	ND		ug/kg	32.7	4.90	A
Aroclor 1254	ND		ug/kg	32.7	3.58	A
Aroclor 1260	ND		ug/kg	32.7	6.04	A
Aroclor 1262	ND		ug/kg	32.7	4.15	A
Aroclor 1268	ND		ug/kg	32.7	3.38	A
PCBs, Total	ND		ug/kg	32.7	2.90	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	60		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1279857-2 WG1279857-3									
Aroclor 1016	105		87		40-140	19		50	A
Aroclor 1260	96		78		40-140	21		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		80		30-150	A
Decachlorobiphenyl	99		80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	109		81		30-150	B
Decachlorobiphenyl	109		81		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/04/19 11:47
 Analyst: AMC
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 09/04/19 02:02
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/04/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.61	0.315	1	A
Lindane	ND		ug/kg	0.671	0.300	1	A
Alpha-BHC	ND		ug/kg	0.671	0.190	1	A
Beta-BHC	ND		ug/kg	1.61	0.610	1	A
Heptachlor	ND		ug/kg	0.805	0.361	1	A
Aldrin	ND		ug/kg	1.61	0.567	1	A
Heptachlor epoxide	ND		ug/kg	3.02	0.905	1	A
Endrin	ND		ug/kg	0.671	0.275	1	B
Endrin aldehyde	ND		ug/kg	2.01	0.704	1	A
Endrin ketone	ND		ug/kg	1.61	0.414	1	A
Dieldrin	ND		ug/kg	1.00	0.503	1	A
4,4'-DDE	ND		ug/kg	1.61	0.372	1	A
4,4'-DDD	ND		ug/kg	1.61	0.574	1	A
4,4'-DDT	ND		ug/kg	3.02	1.29	1	A
Endosulfan I	ND		ug/kg	1.61	0.380	1	A
Endosulfan II	ND		ug/kg	1.61	0.538	1	A
Endosulfan sulfate	ND		ug/kg	0.671	0.319	1	A
Methoxychlor	ND		ug/kg	3.02	0.939	1	A
Toxaphene	ND		ug/kg	30.2	8.45	1	A
cis-Chlordane	ND		ug/kg	2.01	0.561	1	A
trans-Chlordane	ND		ug/kg	2.01	0.531	1	A
Chlordane	ND		ug/kg	13.1	5.33	1	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	70		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/04/19 14:17
 Analyst: DGM
 Percent Solids: 95%
 Methylation Date: 09/04/19 11:55

Extraction Method: EPA 8151A
 Extraction Date: 09/04/19 03:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	173	10.9	1	A
2,4,5-T	ND		ug/kg	173	5.37	1	A
2,4,5-TP (Silvex)	ND		ug/kg	173	4.61	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	72		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/04/19 11:12
Analyst: AMC

Extraction Method: EPA 3546
Extraction Date: 09/03/19 03:20
Cleanup Method: EPA 3620B
Cleanup Date: 09/04/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1279447-1						
Delta-BHC	ND		ug/kg	1.51	0.295	A
Lindane	ND		ug/kg	0.628	0.281	A
Alpha-BHC	ND		ug/kg	0.628	0.178	A
Beta-BHC	ND		ug/kg	1.51	0.571	A
Heptachlor	ND		ug/kg	0.753	0.338	A
Aldrin	ND		ug/kg	1.51	0.530	A
Heptachlor epoxide	ND		ug/kg	2.82	0.847	A
Endrin	ND		ug/kg	0.628	0.257	A
Endrin aldehyde	ND		ug/kg	1.88	0.659	A
Endrin ketone	ND		ug/kg	1.51	0.388	A
Dieldrin	ND		ug/kg	0.942	0.471	A
4,4'-DDE	ND		ug/kg	1.51	0.348	A
4,4'-DDD	ND		ug/kg	1.51	0.537	A
4,4'-DDT	ND		ug/kg	2.82	1.21	A
Endosulfan I	ND		ug/kg	1.51	0.356	A
Endosulfan II	ND		ug/kg	1.51	0.503	A
Endosulfan sulfate	ND		ug/kg	0.628	0.299	A
Methoxychlor	ND		ug/kg	2.82	0.879	A
Toxaphene	ND		ug/kg	28.2	7.91	A
cis-Chlordane	ND		ug/kg	1.88	0.525	A
trans-Chlordane	ND		ug/kg	1.88	0.497	A
Chlordane	ND		ug/kg	12.2	4.99	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/04/19 11:12
Analyst: AMC

Extraction Method: EPA 3546
Extraction Date: 09/03/19 03:20
Cleanup Method: EPA 3620B
Cleanup Date: 09/04/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1279447-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		30-150	B
Decachlorobiphenyl	103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	77		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 09/04/19 13:22
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 09/04/19 03:21

Methylation Date: 09/04/19 11:55

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1279878-1						
2,4-D	ND		ug/kg	163	10.3	A
2,4,5-T	ND		ug/kg	163	5.05	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	82		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1279447-2 WG1279447-3									
Delta-BHC	100		95		30-150	5		30	A
Lindane	101		98		30-150	3		30	A
Alpha-BHC	105		103		30-150	2		30	A
Beta-BHC	94		91		30-150	3		30	A
Heptachlor	105		101		30-150	4		30	A
Aldrin	101		95		30-150	6		30	A
Heptachlor epoxide	97		92		30-150	5		30	A
Endrin	115		105		30-150	9		30	A
Endrin aldehyde	82		45		30-150	58	Q	30	A
Endrin ketone	102		72		30-150	34	Q	30	A
Dieldrin	116		106		30-150	9		30	A
4,4'-DDE	109		99		30-150	10		30	A
4,4'-DDD	117		105		30-150	11		30	A
4,4'-DDT	117		106		30-150	10		30	A
Endosulfan I	98		90		30-150	9		30	A
Endosulfan II	107		96		30-150	11		30	A
Endosulfan sulfate	96		53		30-150	58	Q	30	A
Methoxychlor	102		89		30-150	14		30	A
cis-Chlordane	86		79		30-150	8		30	A
trans-Chlordane	98		92		30-150	6		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1939948

Report Date: 09/05/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1279447-2 WG1279447-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	98		98		30-150	B
Decachlorobiphenyl	88		91		30-150	B
2,4,5,6-Tetrachloro-m-xylene	94		97		30-150	A
Decachlorobiphenyl	80		73		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1279878-2 WG1279878-3									
2,4-D	90		87		30-150	3		30	A
2,4,5-T	105		104		30-150	1		30	A
2,4,5-TP (Silvex)	99		97		30-150	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	97		86		30-150	A
DCAA	95		87		30-150	B

METALS

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1430		mg/kg	8.06	2.18	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.03	0.306	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.806	0.168	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Barium, Total	14.5		mg/kg	0.806	0.140	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Beryllium, Total	0.137	J	mg/kg	0.403	0.027	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.806	0.079	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Calcium, Total	503		mg/kg	8.06	2.82	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Chromium, Total	4.35		mg/kg	0.806	0.077	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Cobalt, Total	1.88		mg/kg	1.61	0.134	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Copper, Total	6.84		mg/kg	0.806	0.208	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Iron, Total	3390		mg/kg	4.03	0.728	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Lead, Total	3.26	J	mg/kg	4.03	0.216	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Magnesium, Total	673		mg/kg	8.06	1.24	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Manganese, Total	33.2		mg/kg	0.806	0.128	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.066	0.043	1	09/04/19 07:30	09/04/19 11:48	EPA 7471B	1,7471B	GD
Nickel, Total	4.39		mg/kg	2.02	0.195	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Potassium, Total	314		mg/kg	202	11.6	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.61	0.208	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.806	0.228	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Sodium, Total	32.9	J	mg/kg	161	2.54	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.61	0.254	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Vanadium, Total	5.26		mg/kg	0.806	0.164	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Zinc, Total	6.64		mg/kg	4.03	0.236	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.4		mg/kg	0.84	0.84	1		09/04/19 12:00	NA	107,-	



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

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): 01 Batch: WG1279170-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	09/04/19 07:30	09/04/19 11:28	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1279932-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Antimony, Total	ND	mg/kg	2.00	0.152	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Barium, Total	ND	mg/kg	0.400	0.070	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Calcium, Total	ND	mg/kg	4.00	1.40	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Chromium, Total	ND	mg/kg	0.400	0.038	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Copper, Total	ND	mg/kg	0.400	0.103	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Iron, Total	0.640	J	mg/kg	2.00	0.361	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Manganese, Total	0.192	J	mg/kg	0.400	0.064	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC
Nickel, Total	ND	mg/kg	1.00	0.097	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Potassium, Total	ND	mg/kg	100	5.76	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Selenium, Total	ND	mg/kg	0.800	0.103	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Silver, Total	ND	mg/kg	0.400	0.113	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Sodium, Total	ND	mg/kg	80.0	1.26	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Thallium, Total	ND	mg/kg	0.800	0.126	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Zinc, Total	ND	mg/kg	2.00	0.117	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1279170-2 SRM Lot Number: D105-540								
Mercury, Total	96		-		60-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1939948

Report Date: 09/05/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1279932-2 SRM Lot Number: D105-540					
Aluminum, Total	61	-	51-149	-	
Antimony, Total	160	-	19-249	-	
Arsenic, Total	108	-	70-130	-	
Barium, Total	88	-	75-125	-	
Beryllium, Total	96	-	75-125	-	
Cadmium, Total	98	-	75-125	-	
Calcium, Total	85	-	73-127	-	
Chromium, Total	96	-	70-130	-	
Cobalt, Total	98	-	75-125	-	
Copper, Total	99	-	75-125	-	
Iron, Total	82	-	38-162	-	
Lead, Total	99	-	71-128	-	
Magnesium, Total	80	-	63-137	-	
Manganese, Total	88	-	76-124	-	
Nickel, Total	99	-	70-131	-	
Potassium, Total	79	-	60-140	-	
Selenium, Total	104	-	63-137	-	
Silver, Total	98	-	69-131	-	
Sodium, Total	94	-	37-162	-	
Thallium, Total	100	-	68-132	-	
Vanadium, Total	95	-	65-135	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1279932-2 SRM Lot Number: D105-540					
Zinc, Total	100	-	70-130	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1279170-3 WG1279170-4 QC Sample: L1939225-04 Client ID: MS Sample												
Mercury, Total	ND	0.174	0.182	105		0.170	99		80-120	7		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1279932-3 QC Sample: L1939948-01 Client ID: EP05_9.0_090319									
Aluminum, Total	1430	158	2160	463	Q	-	75-125	-	20
Antimony, Total	ND	39.4	38.0	96		-	75-125	-	20
Arsenic, Total	ND	9.46	9.97	105		-	75-125	-	20
Barium, Total	14.5	158	169	98		-	75-125	-	20
Beryllium, Total	0.137J	3.94	3.94	100		-	75-125	-	20
Cadmium, Total	ND	4.02	3.81	95		-	75-125	-	20
Calcium, Total	503	789	1310	102		-	75-125	-	20
Chromium, Total	4.35	15.8	21.0	106		-	75-125	-	20
Cobalt, Total	1.88	39.4	39.0	94		-	75-125	-	20
Copper, Total	6.84	19.7	26.9	102		-	75-125	-	20
Iron, Total	3390	78.9	4180	1000	Q	-	75-125	-	20
Lead, Total	3.26J	40.2	42.0	104		-	75-125	-	20
Magnesium, Total	673	789	1620	120		-	75-125	-	20
Manganese, Total	33.2	39.4	81.0	121		-	75-125	-	20
Nickel, Total	4.39	39.4	42.7	97		-	75-125	-	20
Potassium, Total	314	789	1110	101		-	75-125	-	20
Selenium, Total	ND	9.46	9.35	99		-	75-125	-	20
Silver, Total	ND	23.7	23.6	100		-	75-125	-	20
Sodium, Total	32.9J	789	836	106		-	75-125	-	20
Thallium, Total	ND	9.46	8.90	94		-	75-125	-	20
Vanadium, Total	5.26	39.4	45.6	102		-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1279932-3 QC Sample: L1939948-01 Client ID: EP05_9.0_090319									
Zinc, Total	6.64	39.4	47.5	104	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1939948

Report Date: 09/05/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1279932-4 QC Sample: L1939948-01 Client ID: EP05_9.0_090319						
Aluminum, Total	1430	1710	mg/kg	18		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	ND	ND	mg/kg	NC		20
Barium, Total	14.5	12.9	mg/kg	12		20
Beryllium, Total	0.137J	0.150J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	503	608	mg/kg	19		20
Chromium, Total	4.35	6.52	mg/kg	40	Q	20
Cobalt, Total	1.88	2.27	mg/kg	19		20
Copper, Total	6.84	8.82	mg/kg	25	Q	20
Iron, Total	3390	3910	mg/kg	14		20
Lead, Total	3.26J	3.94J	mg/kg	NC		20
Magnesium, Total	673	787	mg/kg	16		20
Manganese, Total	33.2	29.5	mg/kg	12		20
Nickel, Total	4.39	5.92	mg/kg	30	Q	20
Potassium, Total	314	329	mg/kg	5		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	32.9J	45.5J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1939948

Report Date: 09/05/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1279932-4 QC Sample: L1939948-01 Client ID: EP05_9.0_090319					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	5.26	8.31	mg/kg	45 Q	20
Zinc, Total	6.64	8.93	mg/kg	29 Q	20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
Client ID: EP05_9.0_090319
Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
Date Received: 09/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.4		%	0.100	NA	1	-	09/04/19 03:40	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	09/04/19 04:48	09/04/19 11:23	1,9010C/9012B	ML
Chromium, Hexavalent	ND		mg/kg	0.838	0.168	1	09/04/19 03:30	09/04/19 08:21	1,7196A	NH



Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

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): 01 Batch: WG1279929-1									
Cyanide, Total	ND	mg/kg	0.94	0.20	1	09/04/19 04:48	09/04/19 11:09	1,9010C/9012B	ML
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1279930-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	09/04/19 03:30	09/04/19 08:21	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1939948

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1279929-2 WG1279929-3								
Cyanide, Total	57	Q	68	Q	80-120	21		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1279930-2								
Chromium, Hexavalent	77	Q	-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1279929-4 WG1279929-5 QC Sample: L1939674-06 Client ID: MS Sample												
Cyanide, Total	ND	11	10	91		11	97		75-125	10		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1279930-4 QC Sample: L1939948-01 Client ID: EP05_9.0_090319												
Chromium, Hexavalent	ND	836	895	107		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1939948

Report Date: 09/05/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1279877-1 QC Sample: L1939886-01 Client ID: DUP Sample						
Solids, Total	79.3	79.8	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1279930-6 QC Sample: L1939948-01 Client ID: EP05_9.0_090319						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Serial_No:09051908:48
Lab Number: L1939948
Report Date: 09/05/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1939948-01A	Vial MeOH preserved	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L1939948-01B	Vial water preserved	A	NA		3.9	Y	Absent	04-SEP-19 00:56	NYTCL-8260HLW(14)
L1939948-01C	Vial water preserved	A	NA		3.9	Y	Absent	04-SEP-19 00:56	NYTCL-8260HLW(14)
L1939948-01D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1939948-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	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)
L1939948-01F	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HEXCR-7196(30)
L1939948-01G	Glass 500ml/16oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1939948-01G1	Glass 250ml unpreserved split	A	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1939948-02A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L1939948-02B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L1939948-02C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND STREET
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GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

- 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

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- 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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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 exceedances 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 ALPHA <small>LABORATORY</small>	NEW YORK 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>		Date Rec'd in Lab <u>9/3/19</u>	ALPHA Job # <u>L1939948</u>							
		of <u>1</u>											
Westborough, MA 01581 8 Walkup Dr. TEL: 508-896-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information Project Name: <u>300 WEST 122ND STREET</u> Project Location: <u>MANHATTAN, NY</u> Project # <u>170500202</u> (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUiS (1 File) <input type="checkbox"/> EQUiS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO#							
Client Information Client: <u>LANGAN ENG</u> Address: <u>360 W 31ST STREET</u> <u>NEW YORK, NY 10001</u> Phone: <u>212 479 5400</u> Fax: Email: <u>gwyka@langan.com</u>		Project Manager: <u>GREG WYKA</u> ALPHAQuote #: Turn-Around Time Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:							
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <u>24 hr TAT for EPOS_9.0_090319 only</u> </div> Please specify Metals or TAL.		ANALYSIS NOCs SVOCs PCBs Pesticides/Herbicides TAL Metals Tri/Aer Chrom Total Cyanide		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments		Total Bottles							
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Matrix	Sampler's Initials	NOCs SVOCs PCBs Pesticides/Herbicides TAL Metals Tri/Aer Chrom Total Cyanide		Sample Filtration Preservation (Please Specify below) Sample Specific Comments	Total Bottles					
<u>39948-01</u>	<u>EPOS_9.0_090319</u>	<u>9/3/19 13:45</u>	<u>S</u>	<u>PS</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>*RUSH*</u>	<u>7</u>
<u>-02</u>	<u>PM-GW07-090319</u>	<u>9/3/19 13:10</u>	<u>GW</u>	<u>PS</u>	<u>X</u>							<u>NO RUSH</u>	<u>3</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		V A A A A A B A A A A A		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>9/3/19 1420</u>		Received By: <u>[Signature]</u>		Date/Time <u>9/3/19 1420</u>		<u>9/3/19 1630</u>		<u>9/3/19 1604</u>		<u>9/3/19 2102</u>	



ANALYTICAL REPORT

Lab Number:	L1937835
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND STREET
Project Number:	170500202
Report Date:	08/26/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1937835-01	EP07_8.5_082119	SOIL	MANHATTAN, NY	08/21/19 13:00	08/21/19
L1937835-02	DUP03_082119	SOIL	MANHATTAN, NY	08/21/19 00:00	08/21/19
L1937835-03	FB03_082119	WATER	MANHATTAN, NY	08/21/19 14:20	08/21/19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

Case Narrative (continued)

Report Submission

August 26, 2019: This final report includes the results of all requested analyses.

August 23, 2019: This is a preliminary report.

August 23, 2019: This is a preliminary report.

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

Sample Receipt

The analyses performed were specified by the client.

Volatile Organics

L1937835-01: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (132%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

Total Metals

L1937835-01: 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.

Cyanide, Total

The WG1275333-2/-3 LCS/LCSD recoveries (55%/66%), associated with L1937835-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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 Sturgis

Title: Technical Director/Representative

Date: 08/26/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937835-01
 Client ID: EP07_8.5_082119
 Sample Location: MANHATTAN, NY

Date Collected: 08/21/19 13:00
 Date Received: 08/21/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/22/19 06:43
 Analyst: MV
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.88	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.88	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.88	0.11	1
Dibromochloromethane	ND		ug/kg	0.88	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.88	0.24	1
Tetrachloroethene	ND		ug/kg	0.44	0.17	1
Chlorobenzene	ND		ug/kg	0.44	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.61	1
1,2-Dichloroethane	ND		ug/kg	0.88	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.15	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.44	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.44	0.14	1
Bromoform	ND		ug/kg	3.5	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.15	1
Benzene	ND		ug/kg	0.44	0.15	1
Toluene	ND		ug/kg	0.88	0.48	1
Ethylbenzene	ND		ug/kg	0.88	0.12	1
Chloromethane	ND		ug/kg	3.5	0.82	1
Bromomethane	ND		ug/kg	1.8	0.51	1
Vinyl chloride	ND		ug/kg	0.88	0.30	1
Chloroethane	ND		ug/kg	1.8	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.88	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1

Project Name: 300 WEST 122ND STREET

Lab Number: L1937835

Project Number: 170500202

Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937835-01
 Client ID: EP07_8.5_082119
 Sample Location: MANHATTAN, NY

Date Collected: 08/21/19 13:00
 Date Received: 08/21/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.44	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.50	1
o-Xylene	0.51	J	ug/kg	0.88	0.26	1
Xylenes, Total	0.51	J	ug/kg	0.88	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.88	0.15	1
1,2-Dichloroethene, Total	ND		ug/kg	0.88	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.21	1
Styrene	ND		ug/kg	0.88	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.8	0.81	1
Acetone	56		ug/kg	8.8	4.2	1
Carbon disulfide	ND		ug/kg	8.8	4.0	1
2-Butanone	3.0	J	ug/kg	8.8	2.0	1
Vinyl acetate	ND		ug/kg	8.8	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.8	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.11	1
2-Hexanone	ND		ug/kg	8.8	1.0	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.88	0.25	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.44	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.88	0.15	1
sec-Butylbenzene	0.61	J	ug/kg	0.88	0.13	1
tert-Butylbenzene	0.43	J	ug/kg	1.8	0.10	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.88	1
Hexachlorobutadiene	ND		ug/kg	3.5	0.15	1
Isopropylbenzene	0.13	J	ug/kg	0.88	0.10	1
p-Isopropyltoluene	0.20	J	ug/kg	0.88	0.10	1
Naphthalene	1.2	J	ug/kg	3.5	0.57	1
Acrylonitrile	ND		ug/kg	3.5	1.0	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937835-01
Client ID: EP07_8.5_082119
Sample Location: MANHATTAN, NY

Date Collected: 08/21/19 13:00
Date Received: 08/21/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	0.15	J	ug/kg	0.88	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.24	1
1,3,5-Trimethylbenzene	0.90	J	ug/kg	1.8	0.17	1
1,2,4-Trimethylbenzene	1.1	J	ug/kg	1.8	0.30	1
1,4-Dioxane	ND		ug/kg	71	31.	1
p-Diethylbenzene	1.1	J	ug/kg	1.8	0.16	1
p-Ethyltoluene	0.64	J	ug/kg	1.8	0.34	1
1,2,4,5-Tetramethylbenzene	3.2		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.4	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	132	Q	70-130
Dibromofluoromethane	99		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/19 06:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1275402-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/22/19 06:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1275402-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.30	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/22/19 06:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1275402-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1937835

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1275402-3 WG1275402-4								
Methylene chloride	103		105		70-130	2		30
1,1-Dichloroethane	121		122		70-130	1		30
Chloroform	111		111		70-130	0		30
Carbon tetrachloride	115		116		70-130	1		30
1,2-Dichloropropane	121		123		70-130	2		30
Dibromochloromethane	96		98		70-130	2		30
1,1,2-Trichloroethane	103		106		70-130	3		30
Tetrachloroethene	106		105		70-130	1		30
Chlorobenzene	99		99		70-130	0		30
Trichlorofluoromethane	106		105		70-139	1		30
1,2-Dichloroethane	110		112		70-130	2		30
1,1,1-Trichloroethane	114		113		70-130	1		30
Bromodichloromethane	108		111		70-130	3		30
trans-1,3-Dichloropropene	106		109		70-130	3		30
cis-1,3-Dichloropropene	115		118		70-130	3		30
1,1-Dichloropropene	121		122		70-130	1		30
Bromoform	91		95		70-130	4		30
1,1,2,2-Tetrachloroethane	95		99		70-130	4		30
Benzene	114		114		70-130	0		30
Toluene	107		106		70-130	1		30
Ethylbenzene	110		109		70-130	1		30
Chloromethane	96		95		52-130	1		30
Bromomethane	78		77		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1937835

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1275402-3 WG1275402-4								
Vinyl chloride	91		89		67-130	2		30
Chloroethane	86		87		50-151	1		30
1,1-Dichloroethene	107		108		65-135	1		30
trans-1,2-Dichloroethene	111		110		70-130	1		30
Trichloroethene	110		110		70-130	0		30
1,2-Dichlorobenzene	94		94		70-130	0		30
1,3-Dichlorobenzene	98		96		70-130	2		30
1,4-Dichlorobenzene	95		94		70-130	1		30
Methyl tert butyl ether	110		112		66-130	2		30
p/m-Xylene	109		108		70-130	1		30
o-Xylene	108		108		70-130	0		30
cis-1,2-Dichloroethene	109		110		70-130	1		30
Dibromomethane	105		107		70-130	2		30
Styrene	112		112		70-130	0		30
Dichlorodifluoromethane	52		52		30-146	0		30
Acetone	120		126		54-140	5		30
Carbon disulfide	102		101		59-130	1		30
2-Butanone	127		131	Q	70-130	3		30
Vinyl acetate	126		131	Q	70-130	4		30
4-Methyl-2-pentanone	121		128		70-130	6		30
1,2,3-Trichloropropane	99		100		68-130	1		30
2-Hexanone	117		121		70-130	3		30
Bromochloromethane	101		102		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1937835

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1275402-3 WG1275402-4								
2,2-Dichloropropane	119		119		70-130	0		30
1,2-Dibromoethane	98		102		70-130	4		30
1,3-Dichloropropane	104		108		69-130	4		30
1,1,1,2-Tetrachloroethane	98		99		70-130	1		30
Bromobenzene	92		92		70-130	0		30
n-Butylbenzene	111		110		70-130	1		30
sec-Butylbenzene	105		105		70-130	0		30
tert-Butylbenzene	103		101		70-130	2		30
o-Chlorotoluene	105		104		70-130	1		30
p-Chlorotoluene	105		104		70-130	1		30
1,2-Dibromo-3-chloropropane	97		99		68-130	2		30
Hexachlorobutadiene	102		102		67-130	0		30
Isopropylbenzene	104		102		70-130	2		30
p-Isopropyltoluene	106		104		70-130	2		30
Naphthalene	96		101		70-130	5		30
Acrylonitrile	134	Q	141	Q	70-130	5		30
n-Propylbenzene	105		105		70-130	0		30
1,2,3-Trichlorobenzene	98		102		70-130	4		30
1,2,4-Trichlorobenzene	98		100		70-130	2		30
1,3,5-Trimethylbenzene	104		103		70-130	1		30
1,2,4-Trimethylbenzene	105		105		70-130	0		30
1,4-Dioxane	123		135		65-136	9		30
p-Diethylbenzene	110		109		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1937835

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1275402-3 WG1275402-4								
p-Ethyltoluene	111		108		70-130	3		30
1,2,4,5-Tetramethylbenzene	107		108		70-130	1		30
Ethyl ether	107		110		67-130	3		30
trans-1,4-Dichloro-2-butene	110		116		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		108		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	102		101		70-130
Dibromofluoromethane	97		98		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937835-01
 Client ID: EP07_8.5_082119
 Sample Location: MANHATTAN, NY

Date Collected: 08/21/19 13:00
 Date Received: 08/21/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/23/19 05:23
 Analyst: IM
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 08/22/19 08:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	310		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 300 WEST 122ND STREET**Lab Number:** L1937835**Project Number:** 170500202**Report Date:** 08/26/19**SAMPLE RESULTS**

Lab ID: L1937835-01
 Client ID: EP07_8.5_082119
 Sample Location: MANHATTAN, NY

Date Collected: 08/21/19 13:00
 Date Received: 08/21/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	180		ug/kg	110	20.	1
Benzo(a)pyrene	160		ug/kg	140	43.	1
Benzo(b)fluoranthene	240		ug/kg	110	30.	1
Benzo(k)fluoranthene	76	J	ug/kg	110	28.	1
Chrysene	160		ug/kg	110	18.	1
Acenaphthylene	44	J	ug/kg	140	27.	1
Anthracene	37	J	ug/kg	110	34.	1
Benzo(ghi)perylene	110	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	100	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	24	J	ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	140	25.	1
Pyrene	290		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937835-01
 Client ID: EP07_8.5_082119
 Sample Location: MANHATTAN, NY

Date Collected: 08/21/19 13:00
 Date Received: 08/21/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		25-120
Phenol-d6	53		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	40		10-136
4-Terphenyl-d14	52		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/22/19 21:45
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 08/22/19 08:28

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1275426-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/22/19 21:45
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 08/22/19 08:28

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1275426-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 08/22/19 21:45
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 08/22/19 08:28

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1275426-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	72		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1937835

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1275426-2 WG1275426-3								
Acenaphthene	62		68		31-137	9		50
1,2,4-Trichlorobenzene	59		65		38-107	10		50
Hexachlorobenzene	63		69		40-140	9		50
Bis(2-chloroethyl)ether	55		59		40-140	7		50
2-Chloronaphthalene	66		71		40-140	7		50
1,2-Dichlorobenzene	54		62		40-140	14		50
1,3-Dichlorobenzene	55		61		40-140	10		50
1,4-Dichlorobenzene	56		60		28-104	7		50
3,3'-Dichlorobenzidine	50		54		40-140	8		50
2,4-Dinitrotoluene	79		86		40-132	8		50
2,6-Dinitrotoluene	76		84		40-140	10		50
Fluoranthene	66		73		40-140	10		50
4-Chlorophenyl phenyl ether	65		71		40-140	9		50
4-Bromophenyl phenyl ether	64		70		40-140	9		50
Bis(2-chloroisopropyl)ether	46		52		40-140	12		50
Bis(2-chloroethoxy)methane	58		63		40-117	8		50
Hexachlorobutadiene	65		72		40-140	10		50
Hexachlorocyclopentadiene	42		49		40-140	15		50
Hexachloroethane	63		66		40-140	5		50
Isophorone	60		66		40-140	10		50
Naphthalene	59		66		40-140	11		50
Nitrobenzene	63		71		40-140	12		50
NDPA/DPA	66		72		36-157	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1937835

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1275426-2 WG1275426-3								
n-Nitrosodi-n-propylamine	62		67		32-121	8		50
Bis(2-ethylhexyl)phthalate	74		82		40-140	10		50
Butyl benzyl phthalate	75		84		40-140	11		50
Di-n-butylphthalate	69		76		40-140	10		50
Di-n-octylphthalate	74		83		40-140	11		50
Diethyl phthalate	70		78		40-140	11		50
Dimethyl phthalate	73		78		40-140	7		50
Benzo(a)anthracene	63		71		40-140	12		50
Benzo(a)pyrene	66		76		40-140	14		50
Benzo(b)fluoranthene	65		73		40-140	12		50
Benzo(k)fluoranthene	68		75		40-140	10		50
Chrysene	65		72		40-140	10		50
Acenaphthylene	70		75		40-140	7		50
Anthracene	64		70		40-140	9		50
Benzo(ghi)perylene	66		76		40-140	14		50
Fluorene	65		72		40-140	10		50
Phenanthrene	61		67		40-140	9		50
Dibenzo(a,h)anthracene	63		75		40-140	17		50
Indeno(1,2,3-cd)pyrene	64		73		40-140	13		50
Pyrene	66		72		35-142	9		50
Biphenyl	68		74		37-127	8		50
4-Chloroaniline	64		60		40-140	6		50
2-Nitroaniline	85		90		47-134	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1937835

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1275426-2 WG1275426-3								
3-Nitroaniline	58		62		26-129	7		50
4-Nitroaniline	72		76		41-125	5		50
Dibenzofuran	66		72		40-140	9		50
2-Methylnaphthalene	60		66		40-140	10		50
1,2,4,5-Tetrachlorobenzene	65		69		40-117	6		50
Acetophenone	60		65		14-144	8		50
2,4,6-Trichlorophenol	69		72		30-130	4		50
p-Chloro-m-cresol	75		79		26-103	5		50
2-Chlorophenol	60		68		25-102	13		50
2,4-Dichlorophenol	68		75		30-130	10		50
2,4-Dimethylphenol	78		82		30-130	5		50
2-Nitrophenol	77		87		30-130	12		50
4-Nitrophenol	81		80		11-114	1		50
2,4-Dinitrophenol	72		82		4-130	13		50
4,6-Dinitro-o-cresol	86		99		10-130	14		50
Pentachlorophenol	65		75		17-109	14		50
Phenol	57		65		26-90	13		50
2-Methylphenol	62		70		30-130.	12		50
3-Methylphenol/4-Methylphenol	68		75		30-130	10		50
2,4,5-Trichlorophenol	72		80		30-130	11		50
Benzoic Acid	58		69		10-110	17		50
Benzyl Alcohol	66		77		40-140	15		50
Carbazole	65		72		54-128	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1937835

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1275426-2 WG1275426-3								
1,4-Dioxane	45		46		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	62		67		25-120
Phenol-d6	66		71		10-120
Nitrobenzene-d5	70		77		23-120
2-Fluorobiphenyl	69		72		30-120
2,4,6-Tribromophenol	70		80		10-136
4-Terphenyl-d14	64		70		18-120

PCBS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937835-01
 Client ID: EP07_8.5_082119
 Sample Location: MANHATTAN, NY

Date Collected: 08/21/19 13:00
 Date Received: 08/21/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 08/26/19 16:24
 Analyst: KB
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 08/24/19 13:16
 Cleanup Method: EPA 3665A
 Cleanup Date: 08/24/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 08/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.0	3.11	1	A
Aroclor 1221	ND		ug/kg	35.0	3.51	1	A
Aroclor 1232	ND		ug/kg	35.0	7.42	1	A
Aroclor 1242	ND		ug/kg	35.0	4.72	1	A
Aroclor 1248	ND		ug/kg	35.0	5.25	1	A
Aroclor 1254	13.9	J	ug/kg	35.0	3.83	1	B
Aroclor 1260	ND		ug/kg	35.0	6.47	1	A
Aroclor 1262	ND		ug/kg	35.0	4.44	1	A
Aroclor 1268	ND		ug/kg	35.0	3.63	1	A
PCBs, Total	13.9	J	ug/kg	35.0	3.11	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	92		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 08/25/19 18:39
Analyst: KB

Extraction Method: EPA 3546
Extraction Date: 08/24/19 05:29
Cleanup Method: EPA 3665A
Cleanup Date: 08/24/19
Cleanup Method: EPA 3660B
Cleanup Date: 08/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1276316-1						
Aroclor 1016	ND		ug/kg	31.6	2.80	A
Aroclor 1221	ND		ug/kg	31.6	3.16	A
Aroclor 1232	ND		ug/kg	31.6	6.70	A
Aroclor 1242	ND		ug/kg	31.6	4.26	A
Aroclor 1248	ND		ug/kg	31.6	4.74	A
Aroclor 1254	ND		ug/kg	31.6	3.46	A
Aroclor 1260	ND		ug/kg	31.6	5.84	A
Aroclor 1262	ND		ug/kg	31.6	4.01	A
Aroclor 1268	ND		ug/kg	31.6	3.27	A
PCBs, Total	ND		ug/kg	31.6	2.80	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	90		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1276316-2 WG1276316-3									
Aroclor 1016	79		79		40-140	0		50	A
Aroclor 1260	72		74		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		73		30-150	A
Decachlorobiphenyl	74		72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		70		30-150	B
Decachlorobiphenyl	79		80		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937835-01
Client ID: EP07_8.5_082119
Sample Location: MANHATTAN, NY

Date Collected: 08/21/19 13:00
Date Received: 08/21/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/22/19 15:55
Analyst: BM
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 08/22/19 09:33
Cleanup Method: EPA 3620B
Cleanup Date: 08/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.324	1	A
Lindane	ND		ug/kg	0.691	0.309	1	A
Alpha-BHC	ND		ug/kg	0.691	0.196	1	A
Beta-BHC	ND		ug/kg	1.66	0.628	1	A
Heptachlor	ND		ug/kg	0.829	0.372	1	A
Aldrin	ND		ug/kg	1.66	0.584	1	A
Heptachlor epoxide	ND		ug/kg	3.11	0.932	1	A
Endrin	ND		ug/kg	0.691	0.283	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.725	1	A
Endrin ketone	ND		ug/kg	1.66	0.427	1	A
Dieldrin	ND		ug/kg	1.04	0.518	1	A
4,4'-DDE	1.12	JIP	ug/kg	1.66	0.383	1	B
4,4'-DDD	ND		ug/kg	1.66	0.591	1	A
4,4'-DDT	4.05		ug/kg	3.11	1.33	1	A
Endosulfan I	ND		ug/kg	1.66	0.392	1	A
Endosulfan II	ND		ug/kg	1.66	0.554	1	A
Endosulfan sulfate	ND		ug/kg	0.691	0.329	1	A
Methoxychlor	ND		ug/kg	3.11	0.967	1	A
Toxaphene	ND		ug/kg	31.1	8.70	1	A
cis-Chlordane	1.13	JIP	ug/kg	2.07	0.577	1	B
trans-Chlordane	ND	IP	ug/kg	2.07	0.547	1	B
Chlordane	ND		ug/kg	13.5	5.49	1	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937835-01
 Client ID: EP07_8.5_082119
 Sample Location: MANHATTAN, NY

Date Collected: 08/21/19 13:00
 Date Received: 08/21/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	123		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	70		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937835-01
 Client ID: EP07_8.5_082119
 Sample Location: MANHATTAN, NY

Date Collected: 08/21/19 13:00
 Date Received: 08/21/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 08/23/19 16:18
 Analyst: KB
 Percent Solids: 93%
 Methylation Date: 08/22/19 21:10

Extraction Method: EPA 8151A
 Extraction Date: 08/22/19 03:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	177	11.1	1	A
2,4,5-T	ND		ug/kg	177	5.48	1	A
2,4,5-TP (Silvex)	ND		ug/kg	177	4.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	103		30-150	A
DCAA	94		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/22/19 14:52
Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 08/22/19 03:37
Cleanup Method: EPA 3620B
Cleanup Date: 08/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1275335-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.650	0.290	A
Alpha-BHC	ND		ug/kg	0.650	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.591	A
Heptachlor	ND		ug/kg	0.780	0.350	A
Aldrin	ND		ug/kg	1.56	0.549	A
Heptachlor epoxide	ND		ug/kg	2.92	0.877	A
Endrin	ND		ug/kg	0.650	0.266	A
Endrin aldehyde	ND		ug/kg	1.95	0.682	A
Endrin ketone	ND		ug/kg	1.56	0.402	A
Dieldrin	ND		ug/kg	0.975	0.487	A
4,4'-DDE	ND		ug/kg	1.56	0.361	A
4,4'-DDD	ND		ug/kg	1.56	0.556	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.368	A
Endosulfan II	ND		ug/kg	1.56	0.521	A
Endosulfan sulfate	ND		ug/kg	0.650	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.910	A
Toxaphene	ND		ug/kg	29.2	8.19	A
cis-Chlordane	ND		ug/kg	1.95	0.543	A
trans-Chlordane	ND		ug/kg	1.95	0.515	A
Chlordane	ND		ug/kg	12.7	5.16	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/22/19 14:52
Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 08/22/19 03:37
Cleanup Method: EPA 3620B
Cleanup Date: 08/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1275335-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	B
Decachlorobiphenyl	132		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	83		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 08/23/19 10:34
Analyst: KB

Extraction Method: EPA 8151A
Extraction Date: 08/22/19 03:38

Methylation Date: 08/22/19 21:10

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1275336-1						
2,4-D	ND		ug/kg	166	10.4	A
2,4,5-T	ND		ug/kg	166	5.14	A
2,4,5-TP (Silvex)	ND		ug/kg	166	4.41	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	101		30-150	A
DCAA	92		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1937835

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1275335-2 WG1275335-3									
Delta-BHC	79		83		30-150	5		30	A
Lindane	78		84		30-150	7		30	A
Alpha-BHC	81		81		30-150	0		30	A
Beta-BHC	80		83		30-150	4		30	A
Heptachlor	62		75		30-150	19		30	A
Aldrin	74		75		30-150	1		30	A
Heptachlor epoxide	75		81		30-150	8		30	A
Endrin	75		85		30-150	13		30	A
Endrin aldehyde	62		64		30-150	3		30	A
Endrin ketone	71		77		30-150	8		30	A
Dieldrin	74		83		30-150	11		30	A
4,4'-DDE	70		79		30-150	12		30	A
4,4'-DDD	79		88		30-150	11		30	A
4,4'-DDT	82		87		30-150	6		30	A
Endosulfan I	62		72		30-150	15		30	A
Endosulfan II	84		84		30-150	0		30	A
Endosulfan sulfate	60		64		30-150	6		30	A
Methoxychlor	74		81		30-150	9		30	A
cis-Chlordane	70		70		30-150	0		30	A
trans-Chlordane	78		81		30-150	4		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1275335-2 WG1275335-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		91		30-150	B
Decachlorobiphenyl	119		123		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		83		30-150	A
Decachlorobiphenyl	75		81		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1275336-2 WG1275336-3									
2,4-D	105		119		30-150	13		30	A
2,4,5-T	106		122		30-150	14		30	A
2,4,5-TP (Silvex)	108		118		30-150	9		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	107		105		30-150	A
DCAA	104		108		30-150	B

METALS

Project Name: 300 WEST 122ND STREET

Lab Number: L1937835

Project Number: 170500202

Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937835-01
 Client ID: EP07_8.5_082119
 Sample Location: MANHATTAN, NY

Date Collected: 08/21/19 13:00
 Date Received: 08/21/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3050		mg/kg	8.27	2.23	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.14	0.314	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Arsenic, Total	1.21		mg/kg	0.827	0.172	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Barium, Total	35.2		mg/kg	0.827	0.144	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Beryllium, Total	0.207	J	mg/kg	0.414	0.027	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.827	0.081	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Calcium, Total	5190		mg/kg	8.27	2.89	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Chromium, Total	8.01		mg/kg	0.827	0.079	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Cobalt, Total	2.72		mg/kg	1.65	0.137	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Copper, Total	12.2		mg/kg	0.827	0.213	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Iron, Total	6470		mg/kg	4.14	0.747	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Lead, Total	39.3		mg/kg	4.14	0.222	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Magnesium, Total	1340		mg/kg	8.27	1.27	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Manganese, Total	150		mg/kg	0.827	0.132	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Mercury, Total	0.118		mg/kg	0.067	0.044	1	08/22/19 07:50	08/22/19 15:48	EPA 7471B	1,7471B	GD
Nickel, Total	6.30		mg/kg	2.07	0.200	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Potassium, Total	636		mg/kg	207	11.9	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Selenium, Total	0.256	J	mg/kg	1.65	0.213	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.827	0.234	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Sodium, Total	110	J	mg/kg	165	2.60	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.65	0.260	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Vanadium, Total	8.86		mg/kg	0.827	0.168	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
Zinc, Total	26.4		mg/kg	4.14	0.242	2	08/22/19 08:50	08/22/19 12:02	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.0		mg/kg	0.86	0.86	1		08/22/19 12:02	NA	107,-	



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

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): 01 Batch: WG1275390-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	08/22/19 07:50	08/22/19 15:29	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1275415-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Antimony, Total	ND	mg/kg	2.00	0.152	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Barium, Total	ND	mg/kg	0.400	0.070	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Calcium, Total	ND	mg/kg	4.00	1.40	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Chromium, Total	0.080	J	mg/kg	0.400	0.038	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC
Cobalt, Total	ND	mg/kg	0.800	0.066	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Copper, Total	ND	mg/kg	0.400	0.103	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Iron, Total	0.396	J	mg/kg	2.00	0.361	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Manganese, Total	0.272	J	mg/kg	0.400	0.064	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC
Nickel, Total	ND	mg/kg	1.00	0.097	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Potassium, Total	ND	mg/kg	100	5.76	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Selenium, Total	ND	mg/kg	0.800	0.103	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Silver, Total	ND	mg/kg	0.400	0.113	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Sodium, Total	1.50	J	mg/kg	80.0	1.26	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC
Thallium, Total	ND	mg/kg	0.800	0.126	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	
Zinc, Total	ND	mg/kg	2.00	0.117	1	08/22/19 08:50	08/22/19 11:31	1,6010D	LC	

Project Name: 300 WEST 122ND STREET

Lab Number: L1937835

Project Number: 170500202

Report Date: 08/26/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1937835

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1275390-2 SRM Lot Number: D105-540								
Mercury, Total	95		-		60-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1937835

Report Date: 08/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1275415-2 SRM Lot Number: D105-540					
Aluminum, Total	57	-	51-149	-	
Antimony, Total	166	-	19-249	-	
Arsenic, Total	96	-	70-130	-	
Barium, Total	91	-	75-125	-	
Beryllium, Total	90	-	75-125	-	
Cadmium, Total	91	-	75-125	-	
Calcium, Total	83	-	73-127	-	
Chromium, Total	84	-	70-130	-	
Cobalt, Total	89	-	75-125	-	
Copper, Total	88	-	75-125	-	
Iron, Total	70	-	38-162	-	
Lead, Total	90	-	71-128	-	
Magnesium, Total	70	-	63-137	-	
Manganese, Total	91	-	76-124	-	
Nickel, Total	92	-	70-131	-	
Potassium, Total	75	-	60-140	-	
Selenium, Total	94	-	63-137	-	
Silver, Total	86	-	69-131	-	
Sodium, Total	96	-	37-162	-	
Thallium, Total	88	-	68-132	-	
Vanadium, Total	81	-	65-135	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1937835

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1275415-2 SRM Lot Number: D105-540					
Zinc, Total	90	-	70-130	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1275390-3 QC Sample: L1936970-01 Client ID: MS Sample												
Mercury, Total	0.144	0.152	0.244	66	Q	-	-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits		
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1275415-3 WG1275415-4 QC Sample: L1937854-01 Client ID: MS Sample											
Aluminum, Total	4560	168	5300	440	Q	4400	0	Q	75-125	19	20
Antimony, Total	0.668J	42.1	30.6	73	Q	28.4	66	Q	75-125	7	20
Arsenic, Total	3.16	10.1	10.6	74	Q	10.1	68	Q	75-125	5	20
Barium, Total	27.3	168	145	70	Q	136	63	Q	75-125	6	20
Beryllium, Total	0.304	4.21	2.78	59	Q	2.68	56	Q	75-125	4	20
Cadmium, Total	ND	4.29	2.53	59	Q	2.43	56	Q	75-125	4	20
Calcium, Total	22700	841	16100	0	Q	12100	0	Q	75-125	28	Q 20
Chromium, Total	7.46	16.8	17.6	60	Q	16.0	50	Q	75-125	10	20
Cobalt, Total	4.43	42.1	28.9	58	Q	27.7	54	Q	75-125	4	20
Copper, Total	49.9	21	44.8	0	Q	54.9	23	Q	75-125	20	20
Iron, Total	11700	84.1	12200	594	Q	11100	0	Q	75-125	9	20
Lead, Total	19.8	42.9	35.4	36	Q	33.4	31	Q	75-125	6	20
Magnesium, Total	8670	841	7610	0	Q	5790	0	Q	75-125	27	Q 20
Manganese, Total	272	42.1	238	0	Q	394	285	Q	75-125	49	Q 20
Nickel, Total	18.5	42.1	34.8	39	Q	33.3	34	Q	75-125	4	20
Potassium, Total	644	841	1380	87		1190	64	Q	75-125	15	20
Selenium, Total	0.186J	10.1	6.98	69	Q	6.64	65	Q	75-125	5	20
Silver, Total	ND	25.2	18.6	74	Q	17.6	68	Q	75-125	6	20
Sodium, Total	241	841	846	72	Q	798	65	Q	75-125	6	20
Thallium, Total	ND	10.1	5.26	52	Q	5.14	50	Q	75-125	2	20
Vanadium, Total	11.7	42.1	40.5	68	Q	37.5	60	Q	75-125	8	20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits		
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1275415-3 WG1275415-4 QC Sample: L1937854-01 Client ID: MS Sample											
Zinc, Total	80.1	42.1	67.1	0	Q	64.0	0	Q	75-125	5	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1937835

Report Date: 08/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1275390-4 QC Sample: L1936970-01 Client ID: DUP Sample						
Mercury, Total	0.144	0.169	mg/kg	16		20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937835-01
Client ID: EP07_8.5_082119
Sample Location: MANHATTAN, NY

Date Collected: 08/21/19 13:00
Date Received: 08/21/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.0		%	0.100	NA	1	-	08/22/19 05:05	121,2540G	YA
Cyanide, Total	ND		mg/kg	0.99	0.21	1	08/22/19 03:35	08/22/19 08:32	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.860	0.172	1	08/22/19 02:45	08/22/19 11:05	1,7196A	NH



Project Name: 300 WEST 122ND STREET

Lab Number: L1937835

Project Number: 170500202

Report Date: 08/26/19

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): 01 Batch: WG1275333-1									
Cyanide, Total	ND	mg/kg	0.86	0.18	1	08/22/19 03:35	08/22/19 08:17	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1275382-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	08/22/19 02:45	08/22/19 11:05	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1275333-2 WG1275333-3								
Cyanide, Total	55	Q	66	Q	80-120	18		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1275382-2								
Chromium, Hexavalent	81		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1937835

Project Number: 170500202

Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1275333-4 WG1275333-5 QC Sample: L1936651-03 Client ID: MS Sample												
Cyanide, Total	ND	10	10	94		10	90		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1275382-4 QC Sample: L1937835-01 Client ID: EP07_8.5_082119												
Chromium, Hexavalent	ND	1300	1340	103		-	-		75-125	-		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1937835

Report Date: 08/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1275334-1 QC Sample: L1937945-02 Client ID: DUP Sample						
Solids, Total	73.8	65.3	%	12		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1275382-6 QC Sample: L1937835-01 Client ID: EP07_8.5_082119						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 300 WEST 122ND STREET**Lab Number:** L1937835**Project Number:** 170500202**Report Date:** 08/26/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1937835-01A	Vial MeOH preserved	A	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1937835-01B	Vial water preserved	A	NA		2.1	Y	Absent	21-AUG-19 23:55	NYTCL-8260HLW(14)
L1937835-01C	Vial water preserved	A	NA		2.1	Y	Absent	21-AUG-19 23:55	NYTCL-8260HLW(14)
L1937835-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		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)
L1937835-01E	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1937835-01F	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1937835-01G	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1937835-02A	Vial MeOH preserved	A	NA		2.1	Y	Absent		HOLD-8260HLW(14)
L1937835-02A1	Vial MeOH preserved	A	NA		2.1	Y	Absent		HOLD-8260HLW(14)
L1937835-02A2	Vial MeOH preserved	A	NA		2.1	Y	Absent		HOLD-8260HLW(14)
L1937835-02B	Vial water preserved	A	NA		2.1	Y	Absent	21-AUG-19 23:55	HOLD-8260HLW(14)
L1937835-02B1	Vial water preserved	A	NA		2.1	Y	Absent	21-AUG-19 23:55	HOLD-8260HLW(14)
L1937835-02B2	Vial water preserved	A	NA		2.1	Y	Absent	21-AUG-19 23:55	HOLD-8260HLW(14)
L1937835-02C	Vial water preserved	A	NA		2.1	Y	Absent	21-AUG-19 23:55	HOLD-8260HLW(14)
L1937835-02C1	Vial water preserved	A	NA		2.1	Y	Absent	21-AUG-19 23:55	HOLD-8260HLW(14)
L1937835-02C2	Vial water preserved	A	NA		2.1	Y	Absent	21-AUG-19 23:55	HOLD-8260HLW(14)
L1937835-02D	Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		ARCHIVE()
L1937835-02D1	Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		ARCHIVE()
L1937835-02D2	Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		ARCHIVE()

Project Name: 300 WEST 122ND STREET**Lab Number:** L1937835**Project Number:** 170500202**Report Date:** 08/26/19**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1937835-02E	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		ARCHIVE()
L1937835-02E1	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		ARCHIVE()
L1937835-02E2	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		ARCHIVE()
L1937835-02F	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		ARCHIVE()
L1937835-02F1	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		ARCHIVE()
L1937835-02F2	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		ARCHIVE()
L1937835-02G	Glass 500ml/16oz unpreserved	A	NA		2.1	Y	Absent		ARCHIVE()
L1937835-02G1	Glass 500ml/16oz unpreserved	A	NA		2.1	Y	Absent		ARCHIVE()
L1937835-02G2	Glass 500ml/16oz unpreserved	A	NA		2.1	Y	Absent		ARCHIVE()
L1937835-03A	Vial HCl preserved	A	NA		2.1	Y	Absent		ARCHIVE()
L1937835-03B	Vial HCl preserved	A	NA		2.1	Y	Absent		ARCHIVE()
L1937835-03C	Vial HCl preserved	A	NA		2.1	Y	Absent		ARCHIVE()
L1937835-03D	Amber 120ml unpreserved	A	7	7	2.1	Y	Absent		ARCHIVE()
L1937835-03E	Amber 120ml unpreserved	A	7	7	2.1	Y	Absent		ARCHIVE()
L1937835-03F	Amber 120ml unpreserved	A	7	7	2.1	Y	Absent		ARCHIVE()
L1937835-03G	Amber 120ml unpreserved	A	7	7	2.1	Y	Absent		ARCHIVE()
L1937835-03H	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		ARCHIVE()
L1937835-03J	Plastic 250ml NaOH preserved	A	>12	>12	2.1	Y	Absent		ARCHIVE()
L1937835-03K	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		ARCHIVE()
L1937835-03L	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		ARCHIVE()
L1937835-03M	Plastic 500ml unpreserved	A	7	7	2.1	Y	Absent		ARCHIVE()
L1937835-03N	Amber 1000ml unpreserved	A	7	7	2.1	Y	Absent		ARCHIVE()
L1937835-03P	Amber 1000ml unpreserved	A	7	7	2.1	Y	Absent		ARCHIVE()

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

- 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

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when using acetone as a solvent.
- 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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1937835
Report Date: 08/26/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

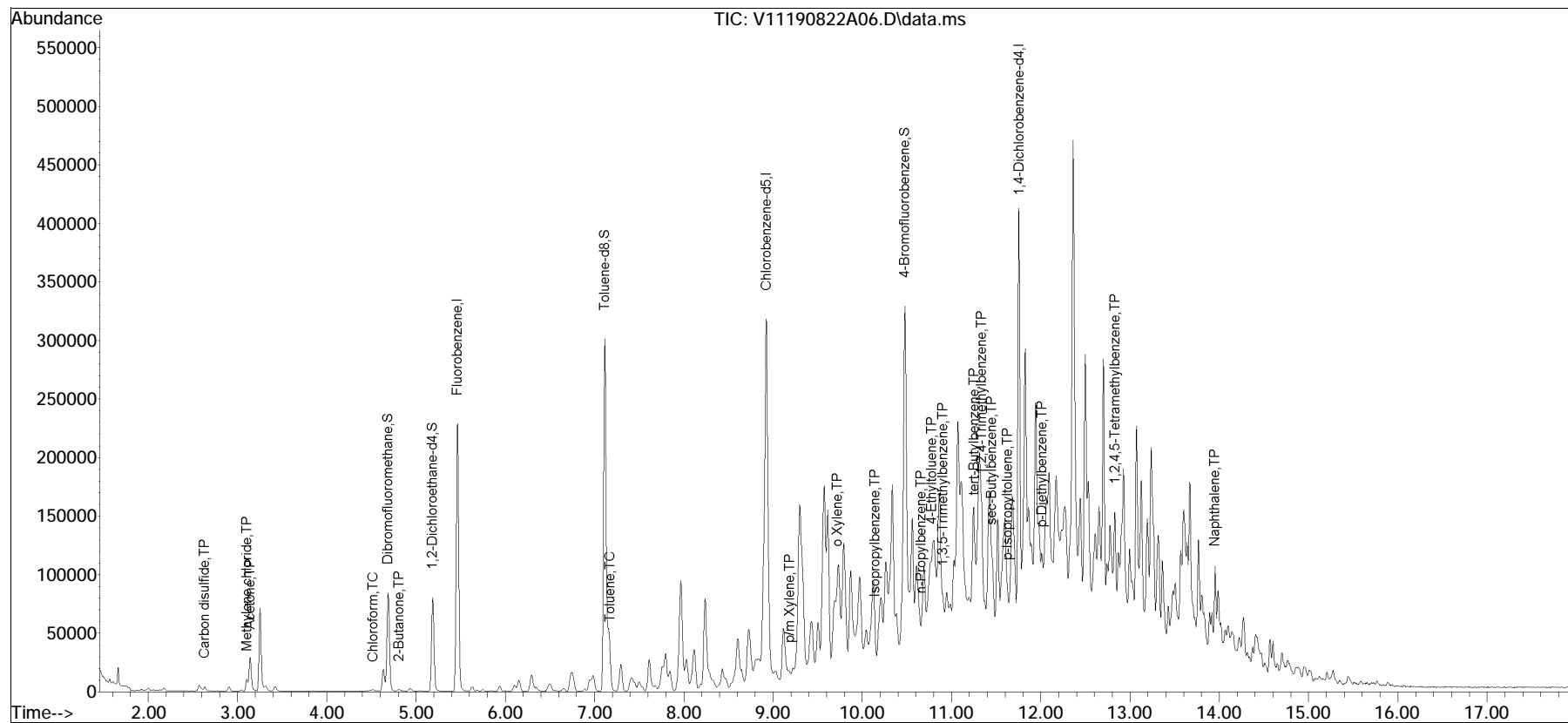
 ALPHA ANALYTICAL Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page of	Date Rec'd in Lab 8/21/19	ALPHA Job # L1937835																																																																																									
		Project Information Project Name: 300 WEST 122ND STREET Project Location: MANHATTAN, NY Project # 170500202 (Use Project name as Project #) <input type="checkbox"/>	Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #																																																																																										
Client Information Client: LANGAN ENG Address: 360 W 31ST STREET NEW YORK, NY Phone: 212 479 5400 Fax: Email: jleung@langan.com	Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																																												
Turn-Around Time Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days:	ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)	Total Bottles																																																																																										
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: RUSH sample EP07-8.5-082119 ONLY Please specify Metals or TAL.	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">VOCs</th> <th rowspan="2">SVOCs</th> <th rowspan="2">PCBs</th> <th rowspan="2">Pesticides/Herbicides</th> <th rowspan="2">TAL Metals</th> <th rowspan="2">Tri/Hex Chrom</th> <th rowspan="2">Total Cyanide</th> <th rowspan="2">Sample Specific Comments</th> <th rowspan="2"></th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>37835-01</td> <td>EP07-8.5-082119</td> <td>8/21/19</td> <td>1300</td> <td>S</td> <td>PS</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>*RUSH*</td> <td>7</td> </tr> <tr> <td>02</td> <td>DU03-082119</td> <td>↓</td> <td>—</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>NO RUSH</td> <td>7</td> </tr> <tr> <td>02</td> <td>MS03-082119</td> <td>↓</td> <td>—</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>NO RUSH</td> <td>7</td> </tr> <tr> <td>02</td> <td>MSD03-082119</td> <td>↓</td> <td>—</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>NO RUSH</td> <td>7</td> </tr> <tr> <td>03</td> <td>FR03-082119</td> <td>8/21/19</td> <td>1420</td> <td>AQ</td> <td>PS</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>NO RUSH</td> <td></td> </tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)		Sample ID	Collection		Sample Matrix	Sampler's Initials	VOCs	SVOCs	PCBs	Pesticides/Herbicides	TAL Metals	Tri/Hex Chrom	Total Cyanide	Sample Specific Comments		Date	Time	37835-01	EP07-8.5-082119	8/21/19	1300	S	PS	X	X	X	X	X	X	X	*RUSH*	7	02	DU03-082119	↓	—	↓	↓	↓	↓	↓	↓	↓	↓	↓	NO RUSH	7	02	MS03-082119	↓	—	↓	↓	↓	↓	↓	↓	↓	↓	↓	NO RUSH	7	02	MSD03-082119	↓	—	↓	↓	↓	↓	↓	↓	↓	↓	↓	NO RUSH	7	03	FR03-082119	8/21/19	1420	AQ	PS	X	X	X	X	X	X	X	NO RUSH
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03	FR03-082119	8/21/19	1420	AQ	PS	X	X	X	X	X	X	X	NO RUSH																																																																																	
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 V A A A A A A	Preservative B A A A A A A	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: Paul Masopla		Date/Time 8/21/19 1435	Received By: Derrick Jackson		Date/Time 8/21 1435																																																																																									
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Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\190822A\
 Data File : V11190822A06.D
 Acq On : 22 Aug 2019 06:43 am
 Operator : VOA111:MV
 Sample : 11937835-01,31,6.08,5,,b
 Misc : WG1275402,ICAL15880
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 22 07:33:42 2019
 Quant Method : I:\VOLATILES\VOA111\2019\190822A\V111_190615A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Jun 17 12:43:12 2019
 Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox90822A\V11190822A01.D•





ANALYTICAL REPORT

Lab Number:	L1933114
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	07/30/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1933114-01	EP08_6.5_072519	SOIL	NY, NY 10027	07/25/19 14:10	07/25/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

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.

Total Metals

L1933114-01: 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.

Cyanide, Total

The WG1264934-2/-3 LCS/LCSD recoveries (72%/78%), associated with L1933114-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 07/30/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

SAMPLE RESULTS

Lab ID: L1933114-01
 Client ID: EP08_6.5_072519
 Sample Location: NY, NY 10027

Date Collected: 07/25/19 14:10
 Date Received: 07/25/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/27/19 16:00
 Analyst: JC
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.36	1
Tetrachloroethene	ND		ug/kg	0.68	0.27	1
Chlorobenzene	ND		ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.23	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.68	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.68	0.22	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.22	1
Benzene	ND		ug/kg	0.68	0.22	1
Toluene	ND		ug/kg	1.4	0.74	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.4	1.3	1
Bromomethane	ND		ug/kg	2.7	0.79	1
Vinyl chloride	ND		ug/kg	1.4	0.46	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.19	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

SAMPLE RESULTS

Lab ID: L1933114-01
Client ID: EP08_6.5_072519
Sample Location: NY, NY 10027

Date Collected: 07/25/19 14:10
Date Received: 07/25/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.68	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.76	1
o-Xylene	ND		ug/kg	1.4	0.40	1
Xylenes, Total	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.19	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	29		ug/kg	14	6.5	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	ND		ug/kg	14	3.0	1
Vinyl acetate	ND		ug/kg	14	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.68	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.4	0.88	1
Acrylonitrile	ND		ug/kg	5.4	1.6	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

SAMPLE RESULTS

Lab ID: L1933114-01
Client ID: EP08_6.5_072519
Sample Location: NY, NY 10027

Date Collected: 07/25/19 14:10
Date Received: 07/25/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
1,4-Dioxane	ND		ug/kg	110	48.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	82		70-130
Dibromofluoromethane	108		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/27/19 09:02
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1265639-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/27/19 09:02
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1265639-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.23	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 07/27/19 09:02
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1265639-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933114

Project Number: 170500202

Report Date: 07/30/19

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: WG1265639-3 WG1265639-4								
Methylene chloride	100		100		70-130	0		30
1,1-Dichloroethane	113		112		70-130	1		30
Chloroform	112		111		70-130	1		30
Carbon tetrachloride	137	Q	136	Q	70-130	1		30
1,2-Dichloropropane	110		109		70-130	1		30
Dibromochloromethane	104		105		70-130	1		30
1,1,2-Trichloroethane	95		94		70-130	1		30
Tetrachloroethene	130		128		70-130	2		30
Chlorobenzene	110		108		70-130	2		30
Trichlorofluoromethane	133		130		70-139	2		30
1,2-Dichloroethane	103		102		70-130	1		30
1,1,1-Trichloroethane	127		126		70-130	1		30
Bromodichloromethane	108		109		70-130	1		30
trans-1,3-Dichloropropene	100		99		70-130	1		30
cis-1,3-Dichloropropene	115		114		70-130	1		30
1,1-Dichloropropene	128		127		70-130	1		30
Bromoform	100		101		70-130	1		30
1,1,2,2-Tetrachloroethane	84		85		70-130	1		30
Benzene	116		113		70-130	3		30
Toluene	111		109		70-130	2		30
Ethylbenzene	114		112		70-130	2		30
Chloromethane	108		103		52-130	5		30
Bromomethane	96		92		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933114

Project Number: 170500202

Report Date: 07/30/19

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: WG1265639-3 WG1265639-4								
Vinyl chloride	102		98		67-130	4		30
Chloroethane	88		87		50-151	1		30
1,1-Dichloroethene	130		126		65-135	3		30
trans-1,2-Dichloroethene	125		124		70-130	1		30
Trichloroethene	121		120		70-130	1		30
1,2-Dichlorobenzene	104		105		70-130	1		30
1,3-Dichlorobenzene	111		109		70-130	2		30
1,4-Dichlorobenzene	106		106		70-130	0		30
Methyl tert butyl ether	100		100		66-130	0		30
p/m-Xylene	119		117		70-130	2		30
o-Xylene	114		111		70-130	3		30
cis-1,2-Dichloroethene	118		120		70-130	2		30
Dibromomethane	106		106		70-130	0		30
Styrene	113		113		70-130	0		30
Dichlorodifluoromethane	98		98		30-146	0		30
Acetone	91		85		54-140	7		30
Carbon disulfide	105		101		59-130	4		30
2-Butanone	90		88		70-130	2		30
Vinyl acetate	100		100		70-130	0		30
4-Methyl-2-pentanone	91		91		70-130	0		30
1,2,3-Trichloropropane	86		85		68-130	1		30
2-Hexanone	83		83		70-130	0		30
Bromochloromethane	119		119		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933114

Project Number: 170500202

Report Date: 07/30/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1265639-3 WG1265639-4								
2,2-Dichloropropane	126		124		70-130	2		30
1,2-Dibromoethane	101		100		70-130	1		30
1,3-Dichloropropane	94		95		69-130	1		30
1,1,1,2-Tetrachloroethane	110		110		70-130	0		30
Bromobenzene	106		105		70-130	1		30
n-Butylbenzene	114		110		70-130	4		30
sec-Butylbenzene	114		114		70-130	0		30
tert-Butylbenzene	118		114		70-130	3		30
o-Chlorotoluene	103		101		70-130	2		30
p-Chlorotoluene	103		102		70-130	1		30
1,2-Dibromo-3-chloropropane	97		100		68-130	3		30
Hexachlorobutadiene	134	Q	132	Q	67-130	2		30
Isopropylbenzene	114		111		70-130	3		30
p-Isopropyltoluene	122		120		70-130	2		30
Naphthalene	108		108		70-130	0		30
Acrylonitrile	102		102		70-130	0		30
n-Propylbenzene	108		105		70-130	3		30
1,2,3-Trichlorobenzene	113		114		70-130	1		30
1,2,4-Trichlorobenzene	118		116		70-130	2		30
1,3,5-Trimethylbenzene	113		111		70-130	2		30
1,2,4-Trimethylbenzene	113		111		70-130	2		30
1,4-Dioxane	99		103		65-136	4		30
p-Diethylbenzene	118		116		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1933114

Report Date: 07/30/19

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: WG1265639-3 WG1265639-4								
p-Ethyltoluene	110		107		70-130	3		30
1,2,4,5-Tetramethylbenzene	113		112		70-130	1		30
Ethyl ether	96		97		67-130	1		30
trans-1,4-Dichloro-2-butene	82		81		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	88		88		70-130
Toluene-d8	93		92		70-130
4-Bromofluorobenzene	92		91		70-130
Dibromofluoromethane	98		98		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

SAMPLE RESULTS

Lab ID: L1933114-01
 Client ID: EP08_6.5_072519
 Sample Location: NY, NY 10027

Date Collected: 07/25/19 14:10
 Date Received: 07/25/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/30/19 05:01
 Analyst: RC
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 07/27/19 22:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	97	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

SAMPLE RESULTS

Lab ID: L1933114-01
 Client ID: EP08_6.5_072519
 Sample Location: NY, NY 10027

Date Collected: 07/25/19 14:10
 Date Received: 07/25/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	57	J	ug/kg	110	21.	1
Benzo(a)pyrene	52	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	75	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	54	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	45	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	39	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	39	J	ug/kg	150	26.	1
Pyrene	93	J	ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

SAMPLE RESULTS

Lab ID: L1933114-01
 Client ID: EP08_6.5_072519
 Sample Location: NY, NY 10027

Date Collected: 07/25/19 14:10
 Date Received: 07/25/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	107		10-136
4-Terphenyl-d14	88		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/19 22:58
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/27/19 22:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1265491-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	18.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/19 22:58
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/27/19 22:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1265491-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 07/29/19 22:58
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/27/19 22:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1265491-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	76		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933114

Project Number: 170500202

Report Date: 07/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1265491-2 WG1265491-3								
Acenaphthene	70		85		31-137	19		50
1,2,4-Trichlorobenzene	74		89		38-107	18		50
Hexachlorobenzene	83		97		40-140	16		50
Bis(2-chloroethyl)ether	66		83		40-140	23		50
2-Chloronaphthalene	76		94		40-140	21		50
1,2-Dichlorobenzene	74		87		40-140	16		50
1,3-Dichlorobenzene	72		84		40-140	15		50
1,4-Dichlorobenzene	72		83		28-104	14		50
3,3'-Dichlorobenzidine	62		74		40-140	18		50
2,4-Dinitrotoluene	92		109		40-132	17		50
2,6-Dinitrotoluene	91		114		40-140	22		50
Fluoranthene	75		91		40-140	19		50
4-Chlorophenyl phenyl ether	75		91		40-140	19		50
4-Bromophenyl phenyl ether	78		94		40-140	19		50
Bis(2-chloroisopropyl)ether	60		74		40-140	21		50
Bis(2-chloroethoxy)methane	72		88		40-117	20		50
Hexachlorobutadiene	74		90		40-140	20		50
Hexachlorocyclopentadiene	77		98		40-140	24		50
Hexachloroethane	72		85		40-140	17		50
Isophorone	72		88		40-140	20		50
Naphthalene	71		89		40-140	23		50
Nitrobenzene	76		94		40-140	21		50
NDPA/DPA	75		91		36-157	19		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933114

Project Number: 170500202

Report Date: 07/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1265491-2 WG1265491-3								
n-Nitrosodi-n-propylamine	71		86		32-121	19		50
Bis(2-ethylhexyl)phthalate	74		91		40-140	21		50
Butyl benzyl phthalate	79		97		40-140	20		50
Di-n-butylphthalate	73		89		40-140	20		50
Di-n-octylphthalate	73		90		40-140	21		50
Diethyl phthalate	76		91		40-140	18		50
Dimethyl phthalate	82		101		40-140	21		50
Benzo(a)anthracene	74		89		40-140	18		50
Benzo(a)pyrene	72		87		40-140	19		50
Benzo(b)fluoranthene	74		96		40-140	26		50
Benzo(k)fluoranthene	77		88		40-140	13		50
Chrysene	71		86		40-140	19		50
Acenaphthylene	79		96		40-140	19		50
Anthracene	73		89		40-140	20		50
Benzo(ghi)perylene	76		92		40-140	19		50
Fluorene	75		90		40-140	18		50
Phenanthrene	70		86		40-140	21		50
Dibenzo(a,h)anthracene	76		92		40-140	19		50
Indeno(1,2,3-cd)pyrene	74		90		40-140	20		50
Pyrene	74		90		35-142	20		50
Biphenyl	78		96		54-104	21		50
4-Chloroaniline	56		70		40-140	22		50
2-Nitroaniline	90		116		47-134	25		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933114

Project Number: 170500202

Report Date: 07/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1265491-2 WG1265491-3								
3-Nitroaniline	67		77		26-129	14		50
4-Nitroaniline	82		99		41-125	19		50
Dibenzofuran	74		89		40-140	18		50
2-Methylnaphthalene	73		92		40-140	23		50
1,2,4,5-Tetrachlorobenzene	76		94		40-117	21		50
Acetophenone	76		92		14-144	19		50
2,4,6-Trichlorophenol	84		106		30-130	23		50
p-Chloro-m-cresol	83		103		26-103	22		50
2-Chlorophenol	77		94		25-102	20		50
2,4-Dichlorophenol	81		101		30-130	22		50
2,4-Dimethylphenol	84		103		30-130	20		50
2-Nitrophenol	92		116		30-130	23		50
4-Nitrophenol	80		101		11-114	23		50
2,4-Dinitrophenol	94		108		4-130	14		50
4,6-Dinitro-o-cresol	100		121		10-130	19		50
Pentachlorophenol	98		115	Q	17-109	16		50
Phenol	75		93	Q	26-90	21		50
2-Methylphenol	76		95		30-130.	22		50
3-Methylphenol/4-Methylphenol	77		96		30-130	22		50
2,4,5-Trichlorophenol	88		108		30-130	20		50
Benzoic Acid	86		104		10-110	19		50
Benzyl Alcohol	80		96		40-140	18		50
Carbazole	72		89		54-128	21		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1933114

Report Date: 07/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1265491-2 WG1265491-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		91		25-120
Phenol-d6	74		92		10-120
Nitrobenzene-d5	78		95		23-120
2-Fluorobiphenyl	75		92		30-120
2,4,6-Tribromophenol	87		107		10-136
4-Terphenyl-d14	72		90		18-120

PCBS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

SAMPLE RESULTS

Lab ID: L1933114-01
 Client ID: EP08_6.5_072519
 Sample Location: NY, NY 10027

Date Collected: 07/25/19 14:10
 Date Received: 07/25/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 07/30/19 05:38
 Analyst: WR
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 07/27/19 21:57
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/28/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/29/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	3.21	1	A
Aroclor 1221	ND		ug/kg	36.2	3.63	1	A
Aroclor 1232	ND		ug/kg	36.2	7.68	1	A
Aroclor 1242	ND		ug/kg	36.2	4.88	1	A
Aroclor 1248	9.51	J	ug/kg	36.2	5.43	1	A
Aroclor 1254	ND		ug/kg	36.2	3.96	1	A
Aroclor 1260	ND		ug/kg	36.2	6.69	1	A
Aroclor 1262	ND		ug/kg	36.2	4.60	1	A
Aroclor 1268	ND		ug/kg	36.2	3.75	1	A
PCBs, Total	9.51	J	ug/kg	36.2	3.21	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/30/19 02:01
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 07/27/19 21:57
Cleanup Method: EPA 3665A
Cleanup Date: 07/28/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/29/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1265487-1						
Aroclor 1016	ND		ug/kg	33.2	2.95	A
Aroclor 1221	ND		ug/kg	33.2	3.32	A
Aroclor 1232	ND		ug/kg	33.2	7.03	A
Aroclor 1242	ND		ug/kg	33.2	4.47	A
Aroclor 1248	ND		ug/kg	33.2	4.98	A
Aroclor 1254	ND		ug/kg	33.2	3.63	A
Aroclor 1260	ND		ug/kg	33.2	6.13	A
Aroclor 1262	ND		ug/kg	33.2	4.21	A
Aroclor 1268	ND		ug/kg	33.2	3.44	A
PCBs, Total	ND		ug/kg	33.2	2.95	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	66		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1933114

Report Date: 07/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1265487-2 WG1265487-3									
Aroclor 1016	89		97		40-140	9		50	A
Aroclor 1260	81		82		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		81		30-150	A
Decachlorobiphenyl	80		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		77		30-150	B
Decachlorobiphenyl	85		81		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

SAMPLE RESULTS

Lab ID: L1933114-01
 Client ID: EP08_6.5_072519
 Sample Location: NY, NY 10027

Date Collected: 07/25/19 14:10
 Date Received: 07/25/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 07/28/19 16:27
 Analyst: AMC
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 07/27/19 20:58
 Cleanup Method: EPA 3620B
 Cleanup Date: 07/28/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.79	0.350	1	A
Lindane	ND		ug/kg	0.745	0.333	1	A
Alpha-BHC	ND		ug/kg	0.745	0.212	1	A
Beta-BHC	ND		ug/kg	1.79	0.678	1	A
Heptachlor	ND		ug/kg	0.894	0.401	1	A
Aldrin	ND		ug/kg	1.79	0.630	1	A
Heptachlor epoxide	ND		ug/kg	3.35	1.00	1	A
Endrin	ND		ug/kg	0.745	0.306	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.782	1	A
Endrin ketone	ND		ug/kg	1.79	0.460	1	A
Dieldrin	ND		ug/kg	1.12	0.559	1	A
4,4'-DDE	ND		ug/kg	1.79	0.414	1	A
4,4'-DDD	ND		ug/kg	1.79	0.638	1	A
4,4'-DDT	ND		ug/kg	3.35	1.44	1	A
Endosulfan I	ND		ug/kg	1.79	0.422	1	A
Endosulfan II	ND		ug/kg	1.79	0.598	1	A
Endosulfan sulfate	ND		ug/kg	0.745	0.355	1	A
Methoxychlor	ND		ug/kg	3.35	1.04	1	A
Toxaphene	ND		ug/kg	33.5	9.39	1	A
cis-Chlordane	ND		ug/kg	2.24	0.623	1	A
trans-Chlordane	ND		ug/kg	2.24	0.590	1	A
Chlordane	ND		ug/kg	14.5	5.92	1	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

SAMPLE RESULTS

Lab ID: L1933114-01
 Client ID: EP08_6.5_072519
 Sample Location: NY, NY 10027

Date Collected: 07/25/19 14:10
 Date Received: 07/25/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	76		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	82		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

SAMPLE RESULTS

Lab ID: L1933114-01
 Client ID: EP08_6.5_072519
 Sample Location: NY, NY 10027

Date Collected: 07/25/19 14:10
 Date Received: 07/25/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 07/28/19 23:53
 Analyst: DGM
 Percent Solids: 89%
 Methylation Date: 07/28/19 05:49

Extraction Method: EPA 8151A
 Extraction Date: 07/27/19 03:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	185	11.7	1	A
2,4,5-T	ND		ug/kg	185	5.74	1	A
2,4,5-TP (Silvex)	ND		ug/kg	185	4.92	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	78		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 07/28/19 17:18
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 07/27/19 03:57

Methylation Date: 07/28/19 05:49

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1265271-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.07	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.35	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	111		30-150	A
DCAA	105		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/28/19 16:39
Analyst: AMC

Extraction Method: EPA 3546
Extraction Date: 07/27/19 18:47
Cleanup Method: EPA 3620B
Cleanup Date: 07/28/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1265470-1						
Delta-BHC	ND		ug/kg	1.54	0.302	A
Lindane	ND		ug/kg	0.644	0.288	A
Alpha-BHC	ND		ug/kg	0.644	0.183	A
Beta-BHC	ND		ug/kg	1.54	0.586	A
Heptachlor	ND		ug/kg	0.772	0.346	A
Aldrin	ND		ug/kg	1.54	0.544	A
Heptachlor epoxide	ND		ug/kg	2.90	0.869	A
Endrin	ND		ug/kg	0.644	0.264	A
Endrin aldehyde	ND		ug/kg	1.93	0.676	A
Endrin ketone	ND		ug/kg	1.54	0.398	A
Dieldrin	ND		ug/kg	0.965	0.483	A
4,4'-DDE	ND		ug/kg	1.54	0.357	A
4,4'-DDD	ND		ug/kg	1.54	0.551	A
4,4'-DDT	ND		ug/kg	2.90	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.365	A
Endosulfan II	ND		ug/kg	1.54	0.516	A
Endosulfan sulfate	ND		ug/kg	0.644	0.306	A
Methoxychlor	ND		ug/kg	2.90	0.901	A
Toxaphene	ND		ug/kg	29.0	8.11	A
cis-Chlordane	ND		ug/kg	1.93	0.538	A
trans-Chlordane	ND		ug/kg	1.93	0.510	A
Chlordane	ND		ug/kg	12.5	5.12	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 07/28/19 16:39
Analyst: AMC

Extraction Method: EPA 3546
Extraction Date: 07/27/19 18:47
Cleanup Method: EPA 3620B
Cleanup Date: 07/28/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1265470-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	53		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	71		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1265271-2 WG1265271-3									
2,4-D	98		114		30-150	15		30	A
2,4,5-T	94		111		30-150	17		30	A
2,4,5-TP (Silvex)	94		111		30-150	17		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	88		94		30-150	A
DCAA	92		103		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933114

Project Number: 170500202

Report Date: 07/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1265470-2 WG1265470-3									
Delta-BHC	85		94		30-150	10		30	A
Lindane	84		90		30-150	7		30	A
Alpha-BHC	92		96		30-150	4		30	A
Beta-BHC	82		83		30-150	1		30	A
Heptachlor	80		86		30-150	7		30	A
Aldrin	72		79		30-150	9		30	A
Heptachlor epoxide	71		75		30-150	5		30	A
Endrin	80		88		30-150	10		30	A
Endrin aldehyde	48		56		30-150	15		30	A
Endrin ketone	76		84		30-150	10		30	A
Dieldrin	82		90		30-150	9		30	A
4,4'-DDE	73		80		30-150	9		30	A
4,4'-DDD	81		90		30-150	11		30	A
4,4'-DDT	74		82		30-150	10		30	A
Endosulfan I	70		78		30-150	11		30	A
Endosulfan II	77		85		30-150	10		30	A
Endosulfan sulfate	72		80		30-150	11		30	A
Methoxychlor	63		70		30-150	11		30	A
cis-Chlordane	58		64		30-150	10		30	A
trans-Chlordane	66		71		30-150	7		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1933114

Report Date: 07/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1265470-2 WG1265470-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		83		30-150	B
Decachlorobiphenyl	55		63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		82		30-150	A
Decachlorobiphenyl	73		82		30-150	A

METALS

Project Name: 300 WEST 122ND ST.

Lab Number: L1933114

Project Number: 170500202

Report Date: 07/30/19

SAMPLE RESULTS

Lab ID: L1933114-01
 Client ID: EP08_6.5_072519
 Sample Location: NY, NY 10027

Date Collected: 07/25/19 14:10
 Date Received: 07/25/19
 Field Prep: Not Specified

Sample Depth:
 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	3400		mg/kg	8.64	2.33	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Antimony, Total	0.328	J	mg/kg	4.32	0.328	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Arsenic, Total	1.53		mg/kg	0.864	0.180	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Barium, Total	41.5		mg/kg	0.864	0.150	2	07/26/19 18:45	07/29/19 17:43	EPA 3050B	1,6010D	AB
Beryllium, Total	0.182	J	mg/kg	0.432	0.029	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Cadmium, Total	0.164	J	mg/kg	0.864	0.085	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Calcium, Total	5630		mg/kg	8.64	3.02	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Chromium, Total	9.10		mg/kg	0.864	0.083	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Cobalt, Total	3.81		mg/kg	1.73	0.144	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Copper, Total	15.5		mg/kg	0.864	0.223	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Iron, Total	8440		mg/kg	4.32	0.781	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Lead, Total	51.0		mg/kg	4.32	0.232	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Magnesium, Total	2630		mg/kg	8.64	1.33	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Manganese, Total	320		mg/kg	0.864	0.137	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Mercury, Total	ND		mg/kg	0.072	0.047	1	07/27/19 05:30	07/29/19 16:07	EPA 7471B	1,7471B	GD
Nickel, Total	11.4		mg/kg	2.16	0.209	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Potassium, Total	659		mg/kg	216	12.4	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Selenium, Total	0.354	J	mg/kg	1.73	0.223	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Silver, Total	ND		mg/kg	0.864	0.245	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Sodium, Total	99.8	J	mg/kg	173	2.72	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Thallium, Total	ND		mg/kg	1.73	0.272	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Vanadium, Total	16.6		mg/kg	0.864	0.176	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
Zinc, Total	23.6		mg/kg	4.32	0.253	2	07/26/19 18:45	07/29/19 15:32	EPA 3050B	1,6010D	PS
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.1		mg/kg	0.90	0.90	1		07/29/19 22:45	NA	107,-	



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

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): 01 Batch: WG1265146-1									
Aluminum, Total	ND	mg/kg	4.00	1.08	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Antimony, Total	ND	mg/kg	2.00	0.152	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Arsenic, Total	ND	mg/kg	0.400	0.083	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Barium, Total	ND	mg/kg	0.400	0.070	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Beryllium, Total	ND	mg/kg	0.200	0.013	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Cadmium, Total	ND	mg/kg	0.400	0.039	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Calcium, Total	ND	mg/kg	4.00	1.40	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Chromium, Total	ND	mg/kg	0.400	0.038	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Cobalt, Total	ND	mg/kg	0.800	0.066	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Copper, Total	ND	mg/kg	0.400	0.103	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Iron, Total	ND	mg/kg	2.00	0.361	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Lead, Total	ND	mg/kg	2.00	0.107	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Magnesium, Total	ND	mg/kg	4.00	0.616	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Manganese, Total	ND	mg/kg	0.400	0.064	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Nickel, Total	ND	mg/kg	1.00	0.097	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Potassium, Total	ND	mg/kg	100	5.76	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Selenium, Total	ND	mg/kg	0.800	0.103	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Silver, Total	ND	mg/kg	0.400	0.113	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Sodium, Total	ND	mg/kg	80.0	1.26	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Thallium, Total	ND	mg/kg	0.800	0.126	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Vanadium, Total	ND	mg/kg	0.400	0.081	1	07/26/19 18:45	07/27/19 00:07	1,6010D	AB
Zinc, Total	ND	mg/kg	2.00	0.117	1	07/26/19 18:45	07/27/19 00:07	1,6010D	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): 01 Batch: WG1265272-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	07/27/19 05:30	07/29/19 12:28	1,7471B	GD



Project Name: 300 WEST 122ND ST.

Lab Number: L1933114

Project Number: 170500202

Report Date: 07/30/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933114

Project Number: 170500202

Report Date: 07/30/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1265146-2 SRM Lot Number: D105-540								
Aluminum, Total	72		-		51-149	-		
Antimony, Total	169		-		19-249	-		
Arsenic, Total	99		-		70-130	-		
Barium, Total	93		-		75-125	-		
Beryllium, Total	104		-		75-125	-		
Cadmium, Total	98		-		75-125	-		
Calcium, Total	90		-		73-127	-		
Chromium, Total	92		-		70-130	-		
Cobalt, Total	91		-		75-125	-		
Copper, Total	93		-		75-125	-		
Iron, Total	90		-		38-162	-		
Lead, Total	90		-		71-128	-		
Magnesium, Total	88		-		63-137	-		
Manganese, Total	89		-		76-124	-		
Nickel, Total	92		-		70-131	-		
Potassium, Total	85		-		60-140	-		
Selenium, Total	94		-		63-137	-		
Silver, Total	92		-		69-131	-		
Sodium, Total	97		-		37-162	-		
Thallium, Total	91		-		68-132	-		
Vanadium, Total	90		-		65-135	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1265146-2 SRM Lot Number: D105-540					
Zinc, Total	96	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1265272-2 SRM Lot Number: D105-540					
Mercury, Total	113	-	60-141	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933114

Project Number: 170500202

Report Date: 07/30/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1265146-3 WG1265146-4 QC Sample: L1933068-02 Client ID: MS Sample												
Aluminum, Total	8890	172	9220	191	Q	10000	647	Q	75-125	8		20
Antimony, Total	1.04J	43.1	39.4	91		37.6	88		75-125	5		20
Arsenic, Total	6.79	10.3	16.6	95		16.6	95		75-125	0		20
Barium, Total	14.9	172	167	88		160	85		75-125	4		20
Beryllium, Total	0.381	4.31	4.71	100		4.48	96		75-125	5		20
Cadmium, Total	ND	4.4	2.75	62	Q	2.48	57	Q	75-125	10		20
Calcium, Total	381	862	1110	84		1120	86		75-125	1		20
Chromium, Total	8.99	17.2	31.3	129	Q	24.1	88		75-125	26	Q	20
Cobalt, Total	6.01	43.1	40.4	80		38.8	76		75-125	4		20
Copper, Total	14.1	21.6	31.6	81		34.3	94		75-125	8		20
Iron, Total	15000	86.2	14900	0	Q	16200	1400	Q	75-125	8		20
Lead, Total	8.52	44	43.2	79		42.2	77		75-125	2		20
Magnesium, Total	2270	862	3110	97		3530	147	Q	75-125	13		20
Manganese, Total	198	43.1	233	81		267	161	Q	75-125	14		20
Nickel, Total	12.1	43.1	49.4	86		45.4	78		75-125	8		20
Potassium, Total	300	862	1090	92		1050	87		75-125	4		20
Selenium, Total	ND	10.3	9.56	92		8.97	87		75-125	6		20
Silver, Total	ND	25.9	23.1	89		22.2	86		75-125	4		20
Sodium, Total	8.71J	862	823	95		773	90		75-125	6		20
Thallium, Total	0.254J	10.3	7.94	77		7.47	72	Q	75-125	6		20
Vanadium, Total	12.9	43.1	49.7	85		49.3	85		75-125	1		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933114

Project Number: 170500202

Report Date: 07/30/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1265146-3 WG1265146-4 QC Sample: L1933068-02 Client ID: MS Sample									
Zinc, Total	36.6	43.1	78.3	97	75.6	91	75-125	4	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1265272-3 QC Sample: L1932942-01 Client ID: MS Sample									
Mercury, Total	4.30	0.145	3.90	0	Q	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1933114

Report Date: 07/30/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1265272-4 QC Sample: L1932942-01 Client ID: DUP Sample						
Mercury, Total	4.30	4.81	mg/kg	11		20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND ST.

Lab Number: L1933114

Project Number: 170500202

Report Date: 07/30/19

SAMPLE RESULTS

Lab ID: L1933114-01

Date Collected: 07/25/19 14:10

Client ID: EP08_6.5_072519

Date Received: 07/25/19

Sample Location: NY, NY 10027

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.7		%	0.100	NA	1	-	07/26/19 09:45	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	07/26/19 11:45	07/26/19 16:03	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.902	0.180	1	07/26/19 18:00	07/29/19 22:45	1,7196A	AJ



Project Name: 300 WEST 122ND ST.

Lab Number: L1933114

Project Number: 170500202

Report Date: 07/30/19

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): 01 Batch: WG1264934-1									
Cyanide, Total	ND	mg/kg	0.90	0.19	1	07/26/19 11:45	07/26/19 15:43	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1264952-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	07/26/19 18:00	07/29/19 22:45	1,7196A	AJ

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1264934-2 WG1264934-3								
Cyanide, Total	72	Q	78	Q	80-120	10		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1264952-2								
Chromium, Hexavalent	95		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933114

Project Number: 170500202

Report Date: 07/30/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1264934-4 WG1264934-5 QC Sample: L1932942-01 Client ID: MS Sample												
Cyanide, Total	2.9	11	13	95		13	96		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1264952-4 QC Sample: L1933114-01 Client ID: EP08_6.5_072519												
Chromium, Hexavalent	ND	909	964	106		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1933114

Report Date: 07/30/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1264881-1 QC Sample: L1933171-21 Client ID: DUP Sample						
Solids, Total	79.3	80.9	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1264952-6 QC Sample: L1933114-01 Client ID: EP08_6.5_072519						
Chromium, Hexavalent	ND	0.214J	mg/kg	NC		20

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Serial_No:07301917:39
Lab Number: L1933114
Report Date: 07/30/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1933114-01A	Vial MeOH preserved	A	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1933114-01B	Vial water preserved	A	NA		3.1	Y	Absent	26-JUL-19 08:21	NYTCL-8260HLW(14)
L1933114-01C	Vial water preserved	A	NA		3.1	Y	Absent	26-JUL-19 08:21	NYTCL-8260HLW(14)
L1933114-01D	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1933114-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	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)
L1933114-01F	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1933114-01G	Glass 500ml/16oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

- 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

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933114
Report Date: 07/30/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

	NEW YORK 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	1	Date Rec'd in Lab 7/24/19	ALPHA Job # L1933114	
			of	1			
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: 508-822-3286	Project Information		Deliverables		Billing Information	
Project Name: 300 West 122nd St.		<input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B		<input checked="" type="checkbox"/> Same as Client Info		PO #	
Project Location: NY, NY 10027		<input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File)					
Project # 170500202		<input type="checkbox"/> Other					
Client: LANGAN, DPC		(Use Project name as Project #) <input type="checkbox"/>		Regulatory Requirement		Disposal Site Information	
Address: 360 W. 31st St. Flr. 8 NY, NY 10001		Project Manager: Greg Wyka		<input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375		Please identify below location of applicable disposal facilities.	
Phone: 212-479-5400		ALPHAQuote #: Greg Wyka		<input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51		Disposal Facility:	
Fax:		Turn-Around Time		<input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other		<input type="checkbox"/> NJ <input type="checkbox"/> NY	
Email: G.WYKA@LANGAN.COM		Standard <input type="checkbox"/> Due Date:		<input type="checkbox"/> NY Unrestricted Use		<input type="checkbox"/> Other:	
		Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days:		<input type="checkbox"/> NYC Sewer Discharge			
These samples have been previously analyzed by Alpha <input type="checkbox"/>				ANALYSIS		Sample Filtration	
Other project specific requirements/comments:				Part 375 / TCL VOCs SVOCs pest/herb PCBs TAL metals + hex/Ar chrome + tit. cyanide		<input type="checkbox"/> Done	
Please specify Metals or TAL.						<input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do	
						(Please Specify below)	
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time		Sample Matrix	Sampler's Initials	Sample Specific Comments	
33114 01	EP08-65 EP08-65-07257	7/25/19	1410	SOIL	AS	X	X
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	
		Relinquished By: <i>Adriana Stappabete</i>		Date/Time: 7/25/19 1440		Received By: <i>[Signature]</i>	
		Date/Time: 7/25/19 1440		Date/Time: 7/25/19 2000		Date/Time: 7/25/19 0815	
Form No: 01-25 HC (rev. 30-Sept-2013)		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.)					

Total Bottles



ANALYTICAL REPORT

Lab Number:	L1919135
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	05/15/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1919135-01	EP09_11.5_050819	SOIL	NY, NY	05/08/19 13:15	05/08/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

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.

Total Metals

L1919135-01: 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.

Cyanide, Total

The WG1235321-2 LCS recovery (61%), associated with L1919135-01, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: 05/15/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

SAMPLE RESULTS

Lab ID: L1919135-01
 Client ID: EP09_11.5_050819
 Sample Location: NY, NY

Date Collected: 05/08/19 13:15
 Date Received: 05/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 05/13/19 10:09
 Analyst: MV
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.93	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.93	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.93	0.12	1
Dibromochloromethane	ND		ug/kg	0.93	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.93	0.25	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.65	1
1,2-Dichloroethane	ND		ug/kg	0.93	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.16	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.93	0.50	1
Ethylbenzene	ND		ug/kg	0.93	0.13	1
Chloromethane	ND		ug/kg	3.7	0.87	1
Bromomethane	ND		ug/kg	1.9	0.54	1
Vinyl chloride	ND		ug/kg	0.93	0.31	1
Chloroethane	ND		ug/kg	1.9	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.93	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

SAMPLE RESULTS

Lab ID: L1919135-01
 Client ID: EP09_11.5_050819
 Sample Location: NY, NY

Date Collected: 05/08/19 13:15
 Date Received: 05/08/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	0.20	J	ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.52	1
o-Xylene	ND		ug/kg	0.93	0.27	1
Xylenes, Total	ND		ug/kg	0.93	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.93	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.93	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.22	1
Styrene	ND		ug/kg	0.93	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.3	0.85	1
Acetone	11		ug/kg	9.3	4.5	1
Carbon disulfide	ND		ug/kg	9.3	4.2	1
2-Butanone	ND		ug/kg	9.3	2.1	1
Vinyl acetate	ND		ug/kg	9.3	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.3	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.3	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.93	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.93	0.16	1
sec-Butylbenzene	ND		ug/kg	0.93	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.93	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.16	1
Isopropylbenzene	ND		ug/kg	0.93	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.93	0.10	1
Naphthalene	ND		ug/kg	3.7	0.60	1
Acrylonitrile	ND		ug/kg	3.7	1.1	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

SAMPLE RESULTS

Lab ID: L1919135-01
 Client ID: EP09_11.5_050819
 Sample Location: NY, NY

Date Collected: 05/08/19 13:15
 Date Received: 05/08/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.93	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.31	1
1,4-Dioxane	ND		ug/kg	74	33.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.16	1
p-Ethyltoluene	ND		ug/kg	1.9	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	103		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/13/19 07:59
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1236505-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 05/13/19 07:59
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1236505-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 05/13/19 07:59
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1236505-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1236505-3 WG1236505-4								
Methylene chloride	86		84		70-130	2		30
1,1-Dichloroethane	86		83		70-130	4		30
Chloroform	83		80		70-130	4		30
Carbon tetrachloride	87		82		70-130	6		30
1,2-Dichloropropane	84		82		70-130	2		30
Dibromochloromethane	92		91		70-130	1		30
1,1,2-Trichloroethane	86		85		70-130	1		30
Tetrachloroethene	91		85		70-130	7		30
Chlorobenzene	84		82		70-130	2		30
Trichlorofluoromethane	71		66	Q	70-139	7		30
1,2-Dichloroethane	86		84		70-130	2		30
1,1,1-Trichloroethane	85		80		70-130	6		30
Bromodichloromethane	86		83		70-130	4		30
trans-1,3-Dichloropropene	91		89		70-130	2		30
cis-1,3-Dichloropropene	88		86		70-130	2		30
1,1-Dichloropropene	84		79		70-130	6		30
Bromoform	92		90		70-130	2		30
1,1,2,2-Tetrachloroethane	82		79		70-130	4		30
Benzene	83		80		70-130	4		30
Toluene	83		80		70-130	4		30
Ethylbenzene	82		78		70-130	5		30
Chloromethane	84		78		52-130	7		30
Bromomethane	51	Q	49	Q	57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1236505-3 WG1236505-4								
Vinyl chloride	68		63	Q	67-130	8		30
Chloroethane	60		56		50-151	7		30
1,1-Dichloroethene	87		84		65-135	4		30
trans-1,2-Dichloroethene	84		81		70-130	4		30
Trichloroethene	83		79		70-130	5		30
1,2-Dichlorobenzene	88		84		70-130	5		30
1,3-Dichlorobenzene	88		83		70-130	6		30
1,4-Dichlorobenzene	88		84		70-130	5		30
Methyl tert butyl ether	88		85		66-130	3		30
p/m-Xylene	85		81		70-130	5		30
o-Xylene	83		79		70-130	5		30
cis-1,2-Dichloroethene	83		82		70-130	1		30
Dibromomethane	85		84		70-130	1		30
Styrene	83		81		70-130	2		30
Dichlorodifluoromethane	85		78		30-146	9		30
Acetone	87		92		54-140	6		30
Carbon disulfide	86		81		59-130	6		30
2-Butanone	70		66	Q	70-130	6		30
Vinyl acetate	82		83		70-130	1		30
4-Methyl-2-pentanone	81		85		70-130	5		30
1,2,3-Trichloropropane	82		79		68-130	4		30
2-Hexanone	68	Q	70		70-130	3		30
Bromochloromethane	93		91		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1236505-3 WG1236505-4								
2,2-Dichloropropane	87		81		70-130	7		30
1,2-Dibromoethane	89		45	Q	70-130	66	Q	30
1,3-Dichloropropane	87		84		69-130	4		30
1,1,1,2-Tetrachloroethane	91		88		70-130	3		30
Bromobenzene	86		83		70-130	4		30
n-Butylbenzene	81		76		70-130	6		30
sec-Butylbenzene	82		76		70-130	8		30
tert-Butylbenzene	83		78		70-130	6		30
o-Chlorotoluene	82		79		70-130	4		30
p-Chlorotoluene	83		78		70-130	6		30
1,2-Dibromo-3-chloropropane	84		87		68-130	4		30
Hexachlorobutadiene	93		87		67-130	7		30
Isopropylbenzene	82		76		70-130	8		30
p-Isopropyltoluene	84		79		70-130	6		30
Naphthalene	81		81		70-130	0		30
Acrylonitrile	85		86		70-130	1		30
n-Propylbenzene	80		75		70-130	6		30
1,2,3-Trichlorobenzene	90		87		70-130	3		30
1,2,4-Trichlorobenzene	90		87		70-130	3		30
1,3,5-Trimethylbenzene	84		80		70-130	5		30
1,2,4-Trimethylbenzene	85		80		70-130	6		30
1,4-Dioxane	82		82		65-136	0		30
p-Diethylbenzene	86		82		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1236505-3 WG1236505-4								
p-Ethyltoluene	85		80		70-130	6		30
1,2,4,5-Tetramethylbenzene	84		80		70-130	5		30
Ethyl ether	93		92		67-130	1		30
trans-1,4-Dichloro-2-butene	79		76		70-130	4		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	99		98		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	98		95		70-130
Dibromofluoromethane	101		100		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

SAMPLE RESULTS

Lab ID: L1919135-01
 Client ID: EP09_11.5_050819
 Sample Location: NY, NY

Date Collected: 05/08/19 13:15
 Date Received: 05/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/14/19 16:42
 Analyst: EK
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 05/11/19 14:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

SAMPLE RESULTS

Lab ID: L1919135-01
 Client ID: EP09_11.5_050819
 Sample Location: NY, NY

Date Collected: 05/08/19 13:15
 Date Received: 05/08/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	830	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

SAMPLE RESULTS

Lab ID: L1919135-01
 Client ID: EP09_11.5_050819
 Sample Location: NY, NY

Date Collected: 05/08/19 13:15
 Date Received: 05/08/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	83		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/14/19 14:06
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 05/11/19 14:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1236187-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	28.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	25.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	32.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/14/19 14:06
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 05/11/19 14:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1236187-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	32.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 05/14/19 14:06
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 05/11/19 14:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1236187-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	78		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1236187-2 WG1236187-3								
Acenaphthene	73		68		31-137	7		50
1,2,4-Trichlorobenzene	76		70		38-107	8		50
Hexachlorobenzene	76		71		40-140	7		50
Bis(2-chloroethyl)ether	76		70		40-140	8		50
2-Chloronaphthalene	81		77		40-140	5		50
1,2-Dichlorobenzene	74		68		40-140	8		50
1,3-Dichlorobenzene	72		67		40-140	7		50
1,4-Dichlorobenzene	73		67		28-104	9		50
3,3'-Dichlorobenzidine	53		48		40-140	10		50
2,4-Dinitrotoluene	86		80		40-132	7		50
2,6-Dinitrotoluene	93		89		40-140	4		50
Fluoranthene	81		76		40-140	6		50
4-Chlorophenyl phenyl ether	75		69		40-140	8		50
4-Bromophenyl phenyl ether	76		70		40-140	8		50
Bis(2-chloroisopropyl)ether	78		72		40-140	8		50
Bis(2-chloroethoxy)methane	79		74		40-117	7		50
Hexachlorobutadiene	75		72		40-140	4		50
Hexachlorocyclopentadiene	91		82		40-140	10		50
Hexachloroethane	75		70		40-140	7		50
Isophorone	81		74		40-140	9		50
Naphthalene	79		74		40-140	7		50
Nitrobenzene	93		86		40-140	8		50
NDPA/DPA	77		72		36-157	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1236187-2 WG1236187-3								
n-Nitrosodi-n-propylamine	81		75		32-121	8		50
Bis(2-ethylhexyl)phthalate	90		81		40-140	11		50
Butyl benzyl phthalate	86		81		40-140	6		50
Di-n-butylphthalate	83		78		40-140	6		50
Di-n-octylphthalate	89		81		40-140	9		50
Diethyl phthalate	77		72		40-140	7		50
Dimethyl phthalate	82		78		40-140	5		50
Benzo(a)anthracene	84		77		40-140	9		50
Benzo(a)pyrene	83		73		40-140	13		50
Benzo(b)fluoranthene	84		77		40-140	9		50
Benzo(k)fluoranthene	84		75		40-140	11		50
Chrysene	80		73		40-140	9		50
Acenaphthylene	85		80		40-140	6		50
Anthracene	83		78		40-140	6		50
Benzo(ghi)perylene	79		74		40-140	7		50
Fluorene	74		68		40-140	8		50
Phenanthrene	80		74		40-140	8		50
Dibenzo(a,h)anthracene	83		74		40-140	11		50
Indeno(1,2,3-cd)pyrene	80		74		40-140	8		50
Pyrene	80		75		35-142	6		50
Biphenyl	86		81		54-104	6		50
4-Chloroaniline	61		61		40-140	0		50
2-Nitroaniline	112		108		47-134	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1236187-2 WG1236187-3								
3-Nitroaniline	56		56		26-129	0		50
4-Nitroaniline	85		80		41-125	6		50
Dibenzofuran	76		70		40-140	8		50
2-Methylnaphthalene	80		75		40-140	6		50
1,2,4,5-Tetrachlorobenzene	82		76		40-117	8		50
Acetophenone	84		78		14-144	7		50
2,4,6-Trichlorophenol	93		86		30-130	8		50
p-Chloro-m-cresol	94		87		26-103	8		50
2-Chlorophenol	82		76		25-102	8		50
2,4-Dichlorophenol	87		83		30-130	5		50
2,4-Dimethylphenol	90		83		30-130	8		50
2-Nitrophenol	103		97		30-130	6		50
4-Nitrophenol	101		93		11-114	8		50
2,4-Dinitrophenol	108		106		4-130	2		50
4,6-Dinitro-o-cresol	108		102		10-130	6		50
Pentachlorophenol	80		74		17-109	8		50
Phenol	82		77		26-90	6		50
2-Methylphenol	84		78		30-130.	7		50
3-Methylphenol/4-Methylphenol	86		82		30-130	5		50
2,4,5-Trichlorophenol	96		90		30-130	6		50
Benzoic Acid	102		95		10-110	7		50
Benzyl Alcohol	84		78		40-140	7		50
Carbazole	82		76		54-128	8		50

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1236187-2 WG1236187-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	83		76		25-120
Phenol-d6	82		76		10-120
Nitrobenzene-d5	95		88		23-120
2-Fluorobiphenyl	81		76		30-120
2,4,6-Tribromophenol	83		75		10-136
4-Terphenyl-d14	82		76		18-120

PCBS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

SAMPLE RESULTS

Lab ID: L1919135-01
 Client ID: EP09_11.5_050819
 Sample Location: NY, NY

Date Collected: 05/08/19 13:15
 Date Received: 05/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 05/14/19 05:02
 Analyst: HT
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 05/11/19 15:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 05/12/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 05/12/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.3	3.04	1	A
Aroclor 1221	ND		ug/kg	34.3	3.43	1	A
Aroclor 1232	ND		ug/kg	34.3	7.26	1	A
Aroclor 1242	ND		ug/kg	34.3	4.62	1	A
Aroclor 1248	ND		ug/kg	34.3	5.14	1	A
Aroclor 1254	ND		ug/kg	34.3	3.75	1	A
Aroclor 1260	ND		ug/kg	34.3	6.33	1	A
Aroclor 1262	ND		ug/kg	34.3	4.35	1	A
Aroclor 1268	ND		ug/kg	34.3	3.55	1	A
PCBs, Total	ND		ug/kg	34.3	3.04	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/13/19 20:38
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 05/11/19 00:36
Cleanup Method: EPA 3665A
Cleanup Date: 05/11/19
Cleanup Method: EPA 3660B
Cleanup Date: 05/11/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1236023-1						
Aroclor 1016	ND		ug/kg	32.6	2.90	A
Aroclor 1221	ND		ug/kg	32.6	3.27	A
Aroclor 1232	ND		ug/kg	32.6	6.92	A
Aroclor 1242	ND		ug/kg	32.6	4.40	A
Aroclor 1248	ND		ug/kg	32.6	4.90	A
Aroclor 1254	ND		ug/kg	32.6	3.57	A
Aroclor 1260	ND		ug/kg	32.6	6.04	A
Aroclor 1262	ND		ug/kg	32.6	4.15	A
Aroclor 1268	ND		ug/kg	32.6	3.38	A
PCBs, Total	ND		ug/kg	32.6	2.90	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	80		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1236023-2 WG1236023-3									
Aroclor 1016	77		76		40-140	1		50	A
Aroclor 1260	67		69		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		62		30-150	A
Decachlorobiphenyl	63		65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		62		30-150	B
Decachlorobiphenyl	72		73		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

SAMPLE RESULTS

Lab ID: L1919135-01
 Client ID: EP09_11.5_050819
 Sample Location: NY, NY

Date Collected: 05/08/19 13:15
 Date Received: 05/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 05/14/19 12:11
 Analyst: SL
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 05/11/19 15:56
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.59	0.312	1	A
Lindane	ND		ug/kg	0.663	0.296	1	A
Alpha-BHC	ND		ug/kg	0.663	0.188	1	A
Beta-BHC	ND		ug/kg	1.59	0.604	1	A
Heptachlor	ND		ug/kg	0.796	0.357	1	A
Aldrin	ND		ug/kg	1.59	0.560	1	A
Heptachlor epoxide	ND		ug/kg	2.98	0.895	1	A
Endrin	ND		ug/kg	0.663	0.272	1	A
Endrin aldehyde	ND		ug/kg	1.99	0.696	1	A
Endrin ketone	ND		ug/kg	1.59	0.410	1	A
Dieldrin	ND		ug/kg	0.995	0.497	1	A
4,4'-DDE	ND		ug/kg	1.59	0.368	1	A
4,4'-DDD	ND		ug/kg	1.59	0.568	1	A
4,4'-DDT	ND		ug/kg	2.98	1.28	1	A
Endosulfan I	ND		ug/kg	1.59	0.376	1	A
Endosulfan II	ND		ug/kg	1.59	0.532	1	A
Endosulfan sulfate	ND		ug/kg	0.663	0.316	1	A
Methoxychlor	ND		ug/kg	2.98	0.928	1	A
Toxaphene	ND		ug/kg	29.8	8.36	1	A
cis-Chlordane	ND		ug/kg	1.99	0.554	1	A
trans-Chlordane	ND		ug/kg	1.99	0.525	1	A
Chlordane	ND		ug/kg	12.9	5.27	1	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

SAMPLE RESULTS

Lab ID: L1919135-01
 Client ID: EP09_11.5_050819
 Sample Location: NY, NY

Date Collected: 05/08/19 13:15
 Date Received: 05/08/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	56		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	65		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

SAMPLE RESULTS

Lab ID: L1919135-01
 Client ID: EP09_11.5_050819
 Sample Location: NY, NY

Date Collected: 05/08/19 13:15
 Date Received: 05/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 05/14/19 23:35
 Analyst: DGM
 Percent Solids: 95%
 Methylation Date: 05/12/19 06:54

Extraction Method: EPA 8151A
 Extraction Date: 05/11/19 04:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	173	10.9	1	A
2,4,5-T	ND		ug/kg	173	5.36	1	A
2,4,5-TP (Silvex)	ND		ug/kg	173	4.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	80		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/13/19 12:44
Analyst: KB

Extraction Method: EPA 3546
Extraction Date: 05/11/19 00:38
Cleanup Method: EPA 3620B
Cleanup Date: 05/12/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1236024-1						
Delta-BHC	ND		ug/kg	1.58	0.309	A
Lindane	ND		ug/kg	0.657	0.294	A
Alpha-BHC	ND		ug/kg	0.657	0.187	A
Beta-BHC	ND		ug/kg	1.58	0.598	A
Heptachlor	ND		ug/kg	0.789	0.354	A
Aldrin	ND		ug/kg	1.58	0.556	A
Heptachlor epoxide	ND		ug/kg	2.96	0.888	A
Endrin	ND		ug/kg	0.657	0.270	A
Endrin aldehyde	ND		ug/kg	1.97	0.690	A
Endrin ketone	ND		ug/kg	1.58	0.406	A
Dieldrin	ND		ug/kg	0.986	0.493	A
4,4'-DDE	ND		ug/kg	1.58	0.365	A
4,4'-DDD	ND		ug/kg	1.58	0.563	A
4,4'-DDT	ND		ug/kg	2.96	1.27	A
Endosulfan I	ND		ug/kg	1.58	0.373	A
Endosulfan II	ND		ug/kg	1.58	0.527	A
Endosulfan sulfate	ND		ug/kg	0.657	0.313	A
Methoxychlor	ND		ug/kg	2.96	0.920	A
Toxaphene	ND		ug/kg	29.6	8.28	A
cis-Chlordane	ND		ug/kg	1.97	0.550	A
trans-Chlordane	ND		ug/kg	1.97	0.521	A
Chlordane	ND		ug/kg	12.8	5.23	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 05/13/19 12:44
Analyst: KB

Extraction Method: EPA 3546
Extraction Date: 05/11/19 00:38
Cleanup Method: EPA 3620B
Cleanup Date: 05/12/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1236024-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	93		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	55		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 05/14/19 06:08
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 05/11/19 01:11

Methylation Date: 05/12/19 06:54

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1236031-1						
2,4-D	ND		ug/kg	166	10.4	A
2,4,5-T	ND		ug/kg	166	5.13	A
2,4,5-TP (Silvex)	ND		ug/kg	166	4.40	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	78		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1236024-2 WG1236024-3									
Delta-BHC	86		96		30-150	11		30	A
Lindane	83		89		30-150	7		30	A
Alpha-BHC	84		91		30-150	8		30	A
Beta-BHC	78		84		30-150	7		30	A
Heptachlor	50		56		30-150	11		30	A
Aldrin	63		70		30-150	11		30	A
Heptachlor epoxide	64		72		30-150	12		30	A
Endrin	78		85		30-150	9		30	A
Endrin aldehyde	66		73		30-150	10		30	A
Endrin ketone	82		88		30-150	7		30	A
Dieldrin	76		84		30-150	10		30	A
4,4'-DDE	69		74		30-150	7		30	A
4,4'-DDD	78		83		30-150	6		30	A
4,4'-DDT	80		87		30-150	8		30	A
Endosulfan I	65		70		30-150	7		30	A
Endosulfan II	75		81		30-150	8		30	A
Endosulfan sulfate	84		85		30-150	1		30	A
Methoxychlor	72		75		30-150	4		30	A
cis-Chlordane	60		65		30-150	8		30	A
trans-Chlordane	76		81		30-150	6		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1236024-2 WG1236024-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	70		77		30-150	B
Decachlorobiphenyl	87		92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		68		30-150	A
Decachlorobiphenyl	49		53		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1236031-2 WG1236031-3									
2,4-D	90		92		30-150	2		30	A
2,4,5-T	86		87		30-150	1		30	A
2,4,5-TP (Silvex)	89		91		30-150	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	82		84		30-150	A
DCAA	83		84		30-150	B

METALS

Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

SAMPLE RESULTS

Lab ID: L1919135-01
 Client ID: EP09_11.5_050819
 Sample Location: NY, NY

Date Collected: 05/08/19 13:15
 Date Received: 05/08/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1590		mg/kg	7.91	2.14	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Antimony, Total	0.419	J	mg/kg	3.95	0.300	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Arsenic, Total	0.482	J	mg/kg	0.791	0.164	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Barium, Total	22.2		mg/kg	0.791	0.138	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Beryllium, Total	0.126	J	mg/kg	0.395	0.026	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.791	0.078	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Calcium, Total	784		mg/kg	7.91	2.77	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Chromium, Total	5.19		mg/kg	0.791	0.076	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Cobalt, Total	1.95		mg/kg	1.58	0.131	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Copper, Total	9.39		mg/kg	0.791	0.204	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Iron, Total	4710		mg/kg	3.95	0.714	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Lead, Total	1.98	J	mg/kg	3.95	0.212	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Magnesium, Total	1110		mg/kg	7.91	1.22	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Manganese, Total	56.1		mg/kg	0.791	0.126	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.066	0.014	1	05/09/19 07:00	05/09/19 10:54	EPA 7471B	1,7471B	GD
Nickel, Total	4.90		mg/kg	1.98	0.191	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Potassium, Total	387		mg/kg	198	11.4	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.58	0.204	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.791	0.224	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Sodium, Total	60.3	J	mg/kg	158	2.49	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.58	0.249	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Vanadium, Total	5.62		mg/kg	0.791	0.160	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
Zinc, Total	7.46		mg/kg	3.95	0.232	2	05/09/19 08:00	05/09/19 12:10	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.0	J	mg/kg	0.84	0.84	1		05/10/19 09:02	NA	107,-	



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

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): 01 Batch: WG1235221-1									
Mercury, Total	ND	mg/kg	0.083	0.018	1	05/09/19 07:00	05/09/19 10:23	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1235222-1									
Aluminum, Total	ND	mg/kg	4.00	1.08	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Antimony, Total	ND	mg/kg	2.00	0.152	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Arsenic, Total	ND	mg/kg	0.400	0.083	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Barium, Total	0.116 J	mg/kg	0.400	0.070	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Beryllium, Total	ND	mg/kg	0.200	0.013	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Cadmium, Total	ND	mg/kg	0.400	0.039	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Calcium, Total	ND	mg/kg	4.00	1.40	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Chromium, Total	ND	mg/kg	0.400	0.038	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Cobalt, Total	ND	mg/kg	0.800	0.066	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Copper, Total	ND	mg/kg	0.400	0.103	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Iron, Total	0.980 J	mg/kg	2.00	0.361	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Magnesium, Total	ND	mg/kg	4.00	0.616	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Manganese, Total	0.076 J	mg/kg	0.400	0.064	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Nickel, Total	ND	mg/kg	1.00	0.097	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Potassium, Total	ND	mg/kg	100	5.76	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Selenium, Total	ND	mg/kg	0.800	0.103	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Silver, Total	ND	mg/kg	0.400	0.113	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Sodium, Total	ND	mg/kg	80.0	1.26	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Thallium, Total	ND	mg/kg	0.800	0.126	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Vanadium, Total	ND	mg/kg	0.400	0.081	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC
Zinc, Total	ND	mg/kg	2.00	0.117	1	05/09/19 08:00	05/09/19 11:02	1,6010D	LC

Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1235221-2 SRM Lot Number: D101-540								
Mercury, Total	104		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1919135

Report Date: 05/15/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1235222-2 SRM Lot Number: D101-540					
Aluminum, Total	66	-	50-151	-	
Antimony, Total	162	-	3-196	-	
Arsenic, Total	104	-	83-117	-	
Barium, Total	86	-	83-118	-	
Beryllium, Total	90	-	83-117	-	
Cadmium, Total	97	-	83-117	-	
Calcium, Total	86	-	81-119	-	
Chromium, Total	93	-	81-118	-	
Cobalt, Total	99	-	84-116	-	
Copper, Total	91	-	83-116	-	
Iron, Total	92	-	62-138	-	
Lead, Total	100	-	83-117	-	
Magnesium, Total	81	-	76-124	-	
Manganese, Total	87	-	82-118	-	
Nickel, Total	99	-	82-117	-	
Potassium, Total	80	-	71-130	-	
Selenium, Total	102	-	79-121	-	
Silver, Total	94	-	80-120	-	
Sodium, Total	88	-	72-127	-	
Thallium, Total	102	-	81-119	-	
Vanadium, Total	96	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1919135

Report Date: 05/15/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1235222-2 SRM Lot Number: D101-540					
Zinc, Total	100	-	81-119	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1235221-3 WG1235221-4 QC Sample: L1919185-01 Client ID: MS Sample												
Mercury, Total	0.485	0.156	0.641	100		0.733	162	Q	80-120	13		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits			
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1235222-3 WG1235222-4 QC Sample: L1919185-01 Client ID: MS Sample												
Aluminum, Total	6750	189	7020	142	Q	7480	390	Q	75-125	6	20	
Antimony, Total	14.6	47.4	48.4	71	Q	44.9	65	Q	75-125	8	20	
Arsenic, Total	5.79	11.4	16.7	96		15.9	90		75-125	5	20	
Barium, Total	200	189	440	127	Q	476	148	Q	75-125	8	20	
Beryllium, Total	0.309J	4.74	4.56	96		4.51	96		75-125	1	20	
Cadmium, Total	ND	4.83	4.70	97		4.29	90		75-125	9	20	
Calcium, Total	15600	947	13900	0	Q	15100	0	Q	75-125	8	20	
Chromium, Total	15.4	18.9	33.0	93		34.0	99		75-125	3	20	
Cobalt, Total	5.74	47.4	48.0	89		47.0	88		75-125	2	20	
Copper, Total	50.2	23.7	59.1	38	Q	58.0	33	Q	75-125	2	20	
Iron, Total	14700	94.7	18900	4430	Q	13500	0	Q	75-125	33	Q	20
Lead, Total	306	48.3	405	205	Q	452	306	Q	75-125	11	20	
Magnesium, Total	2520	947	3030	54	Q	3970	155	Q	75-125	27	Q	20
Manganese, Total	287	47.4	348	129	Q	309	47	Q	75-125	12	20	
Nickel, Total	20.0	47.4	60.8	86		61.3	88		75-125	1	20	
Potassium, Total	789	947	1630	89		1790	107		75-125	9	20	
Selenium, Total	0.627J	11.4	10.7	94		10.6	94		75-125	1	20	
Silver, Total	ND	28.4	20.8	73	Q	20.6	73	Q	75-125	1	20	
Sodium, Total	189	947	1080	94		1130	101		75-125	5	20	
Thallium, Total	ND	11.4	9.31	82		8.99	80		75-125	3	20	
Vanadium, Total	27.3	47.4	69.7	90		68.5	88		75-125	2	20	

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits		
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1235222-3 WG1235222-4 QC Sample: L1919185-01 Client ID: MS Sample											
Zinc, Total	268	47.4	352	177	Q	296	60	Q	75-125	17	20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

SAMPLE RESULTS

Lab ID: L1919135-01
Client ID: EP09_11.5_050819
Sample Location: NY, NY

Date Collected: 05/08/19 13:15
Date Received: 05/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.0		%	0.100	NA	1	-	05/09/19 05:08	121,2540G	YA
Cyanide, Total	ND		mg/kg	0.96	0.20	1	05/09/19 12:45	05/09/19 17:08	1,9010C/9012B	ML
Chromium, Hexavalent	0.221	J	mg/kg	0.842	0.168	1	05/09/19 17:30	05/10/19 09:02	1,7196A	NH



Project Name: 300 WEST 122ND ST.

Lab Number: L1919135

Project Number: 170500202

Report Date: 05/15/19

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): 01 Batch: WG1235321-1										
Cyanide, Total	0.40	J	mg/kg	0.93	0.20	1	05/09/19 12:45	05/09/19 16:56	1,9010C/9012B	ML
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1235542-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	05/09/19 17:30	05/10/19 09:02	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1919135

Report Date: 05/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1235321-2 WG1235321-3								
Cyanide, Total	61	Q	83		80-120	34		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1235542-2								
Chromium, Hexavalent	90		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1235321-4 WG1235321-5 QC Sample: L1919185-01 Client ID: MS Sample												
Cyanide, Total	ND	11	11	99		10	90		75-125	10		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1235542-4 QC Sample: L1919135-01 Client ID: EP09_11.5_050819												
Chromium, Hexavalent	0.221J	756	900	119		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1919135

Report Date: 05/15/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1235145-1 QC Sample: L1918599-04 Client ID: DUP Sample						
Solids, Total	81.8	81.2	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1235542-6 QC Sample: L1919135-01 Client ID: EP09_11.5_050819						
Chromium, Hexavalent	0.221J	ND	mg/kg	NC		20

Project Name: 300 WEST 122ND ST.**Lab Number:** L1919135**Project Number:** 170500202**Report Date:** 05/15/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1919135-01A	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW(14)
L1919135-01B	Vial water preserved	A	NA		4.3	Y	Absent	08-MAY-19 22:33	NYTCL-8260HLW(14)
L1919135-01C	Vial water preserved	A	NA		4.3	Y	Absent	08-MAY-19 22:33	NYTCL-8260HLW(14)
L1919135-01D	Plastic 2oz unpreserved for TS	A	NA		4.3	Y	Absent		TS(7)
L1919135-01E	Glass 60mL/2oz unpreserved	A	NA		4.3	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)
L1919135-01F	Glass 60mL/2oz unpreserved	A	NA		4.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1919135-01G	Glass 60mL/2oz unpreserved	A	NA		4.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1919135-01H	Glass 500ml/16oz unpreserved	A	NA		4.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

- 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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1919135
Report Date: 05/15/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 <p>NEW YORK CHAIN OF CUSTODY</p> <p>Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193</p> <p>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288</p>	<p>Service Centers</p> <p>Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105</p>	<p>Page 1 of 1</p>	<p>Date Rec'd in Lab: 5/8/19</p>	<p>ALPHA Job #: 61919135</p>																																																																																																																																																	
	<p>Project Information</p> <p>Project Name: 300 West 122nd St. Project Location: NY, NY Project #: 170500202</p>	<p>Deliverables</p> <p><input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other</p>	<p>Billing Information</p> <p><input checked="" type="checkbox"/> Same as Client Info PO #</p>																																																																																																																																																		
<p>Client Information</p> <p>Client: LANGRAN, DYC Address: [Redacted] Phone: [Redacted] Fax: [Redacted] Email: GWYKAP@LANGRAN.COM</p>	<p>(Use Project name as Project #) <input type="checkbox"/> Project Manager: Greg Wyka ALPHAQuote #: Turn-Around Time: Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days: 24 hr</p>	<p>Regulatory Requirement</p> <p><input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge</p>	<p>Disposal Site Information</p> <p>Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:</p>																																																																																																																																																		
<p>These samples have been previously analyzed by Alpha <input type="checkbox"/></p> <p>Other project specific requirements/comments:</p> <p>Please specify Metals or TAL.</p>	<p>ANALYSIS</p> <p>Part 375 TCL VOCs SVOCs PCBs Pest/Inerb. TAL Metals + Tr. Max Chromium + Nitrate</p>	<p>Sample Filtration</p> <p><input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)</p>	<p>Total Bottles</p>																																																																																																																																																		
<table border="1"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th colspan="6">ANALYSIS</th> <th rowspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>Part 375</th> <th>TCL</th> <th>VOCs</th> <th>SVOCs</th> <th>PCBs</th> <th>Pest/Inerb.</th> <th>TAL Metals + Tr. Max</th> <th>Chromium + Nitrate</th> </tr> </thead> <tbody> <tr> <td>19135-01</td> <td>EP09-11.5-050819</td> <td>5/8/19</td> <td>11:15</td> <td>Soil</td> <td>MS</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	ALPHA Lab ID (Lab Use Only)	Sample ID		Collection		Sample Matrix	Sampler's Initials	ANALYSIS						Sample Specific Comments	Date	Time	Part 375	TCL	VOCs	SVOCs	PCBs	Pest/Inerb.	TAL Metals + Tr. Max	Chromium + Nitrate	19135-01	EP09-11.5-050819	5/8/19	11:15	Soil	MS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																
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<p>Preservative Code: A = None B = HCl C = HNO₃ D = H₂SO₄ E = NaOH F = MeOH G = NaHSO₄ H = Na₂S₂O₃ K/E = Zn Ac/NaOH O = Other</p>	<p>Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle</p>	<p>Westboro: Certification No: MA935 Mansfield: Certification No: MA015</p>	<p>Container Type</p> <p>Preservative</p>	<p>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.)</p>																																																																																																																																																	
<p>Relinquished By: Ashley Stoppach</p>		<p>Date/Time: 5/8/19 1430</p>	<p>Received By: Paul Mayella</p>		<p>Date/Time: 5/8/19 1430</p>																																																																																																																																																
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<p>Relinquished By: Paul Mayella</p>		<p>Date/Time: 5/8/19 2100</p>	<p>Received By: [Signature]</p>		<p>Date/Time: 5/8/19 2107</p>																																																																																																																																																



ANALYTICAL REPORT

Lab Number:	L1933360
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	07/31/19

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1933360-01	EP12_6.5_072619	SOIL	NY, NY 10027	07/26/19 15:30	07/26/19
L1933360-02	EP10_3_072619	SOIL	NY, NY 10027	07/26/19 15:40	07/26/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

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.

Volatile Organics

L1933360-02: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L1933360-02: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (144%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

Total Metals

L1933360-01 and -02: 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.

Cyanide, Total

The WG1265580-2/-3 LCS/LCSD recoveries (59%/65%), associated with L1933360-01 and -02, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 07/31/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-01
 Client ID: EP12_6.5_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:30
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/30/19 22:11
 Analyst: MV
 Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-01
 Client ID: EP12_6.5_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:30
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	5.4	J	ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-01
Client ID: EP12_6.5_072619
Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:30
Date Received: 07/26/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	0.20	J	ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	85		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	107		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-02 D
 Client ID: EP10_3_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:40
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/30/19 23:31
 Analyst: MV
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	580	260	2
1,1-Dichloroethane	ND		ug/kg	120	17.	2
Chloroform	ND		ug/kg	170	16.	2
Carbon tetrachloride	ND		ug/kg	120	27.	2
1,2-Dichloropropane	ND		ug/kg	120	14.	2
Dibromochloromethane	ND		ug/kg	120	16.	2
1,1,2-Trichloroethane	ND		ug/kg	120	31.	2
Tetrachloroethene	ND		ug/kg	58	23.	2
Chlorobenzene	ND		ug/kg	58	15.	2
Trichlorofluoromethane	ND		ug/kg	460	80.	2
1,2-Dichloroethane	ND		ug/kg	120	30.	2
1,1,1-Trichloroethane	ND		ug/kg	58	19.	2
Bromodichloromethane	ND		ug/kg	58	13.	2
trans-1,3-Dichloropropene	ND		ug/kg	120	32.	2
cis-1,3-Dichloropropene	ND		ug/kg	58	18.	2
1,3-Dichloropropene, Total	ND		ug/kg	58	18.	2
1,1-Dichloropropene	ND		ug/kg	58	18.	2
Bromoform	ND		ug/kg	460	28.	2
1,1,2,2-Tetrachloroethane	ND		ug/kg	58	19.	2
Benzene	ND		ug/kg	58	19.	2
Toluene	ND		ug/kg	120	63.	2
Ethylbenzene	ND		ug/kg	120	16.	2
Chloromethane	ND		ug/kg	460	110	2
Bromomethane	ND		ug/kg	230	67.	2
Vinyl chloride	ND		ug/kg	120	39.	2
Chloroethane	ND		ug/kg	230	52.	2
1,1-Dichloroethene	ND		ug/kg	120	28.	2
trans-1,2-Dichloroethene	ND		ug/kg	170	16.	2

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-02 D

Date Collected: 07/26/19 15:40

Client ID: EP10_3_072619

Date Received: 07/26/19

Sample Location: NY, NY 10027

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	58	16.	2
1,2-Dichlorobenzene	ND		ug/kg	230	17.	2
1,3-Dichlorobenzene	ND		ug/kg	230	17.	2
1,4-Dichlorobenzene	ND		ug/kg	230	20.	2
Methyl tert butyl ether	ND		ug/kg	230	23.	2
p/m-Xylene	ND		ug/kg	230	65.	2
o-Xylene	ND		ug/kg	120	34.	2
Xylenes, Total	ND		ug/kg	120	34.	2
cis-1,2-Dichloroethene	ND		ug/kg	120	20.	2
1,2-Dichloroethene, Total	ND		ug/kg	120	16.	2
Dibromomethane	ND		ug/kg	230	28.	2
Styrene	ND		ug/kg	120	23.	2
Dichlorodifluoromethane	ND		ug/kg	1200	110	2
Acetone	ND		ug/kg	1200	560	2
Carbon disulfide	ND		ug/kg	1200	530	2
2-Butanone	ND		ug/kg	1200	260	2
Vinyl acetate	ND		ug/kg	1200	250	2
4-Methyl-2-pentanone	ND		ug/kg	1200	150	2
1,2,3-Trichloropropane	ND		ug/kg	230	15.	2
2-Hexanone	ND		ug/kg	1200	140	2
Bromochloromethane	ND		ug/kg	230	24.	2
2,2-Dichloropropane	ND		ug/kg	230	23.	2
1,2-Dibromoethane	ND		ug/kg	120	32.	2
1,3-Dichloropropane	ND		ug/kg	230	19.	2
1,1,1,2-Tetrachloroethane	ND		ug/kg	58	15.	2
Bromobenzene	ND		ug/kg	230	17.	2
n-Butylbenzene	190		ug/kg	120	19.	2
sec-Butylbenzene	480		ug/kg	120	17.	2
tert-Butylbenzene	36	J	ug/kg	230	14.	2
o-Chlorotoluene	ND		ug/kg	230	22.	2
p-Chlorotoluene	ND		ug/kg	230	12.	2
1,2-Dibromo-3-chloropropane	ND		ug/kg	350	120	2
Hexachlorobutadiene	ND		ug/kg	460	20.	2
Isopropylbenzene	ND		ug/kg	120	13.	2
p-Isopropyltoluene	ND		ug/kg	120	13.	2
Naphthalene	100	J	ug/kg	460	75.	2
Acrylonitrile	ND		ug/kg	460	130	2

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-02 D
 Client ID: EP10_3_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:40
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	120	20.	2
1,2,3-Trichlorobenzene	ND		ug/kg	230	37.	2
1,2,4-Trichlorobenzene	ND		ug/kg	230	32.	2
1,3,5-Trimethylbenzene	ND		ug/kg	230	22.	2
1,2,4-Trimethylbenzene	60	J	ug/kg	230	39.	2
1,4-Dioxane	ND		ug/kg	9300	4100	2
p-Diethylbenzene	290		ug/kg	230	20.	2
p-Ethyltoluene	ND		ug/kg	230	44.	2
1,2,4,5-Tetramethylbenzene	100	J	ug/kg	230	22.	2
Ethyl ether	ND		ug/kg	230	40.	2
trans-1,4-Dichloro-2-butene	ND		ug/kg	580	160	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
Toluene-d8	117		70-130
4-Bromofluorobenzene	144	Q	70-130
Dibromofluoromethane	90		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/30/19 20:15
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1266691-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/30/19 20:15
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1266691-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.25	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 07/30/19 20:15
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1266691-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	105		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 07/30/19 19:32
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02 Batch: WG1266714-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 07/30/19 19:32
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02 Batch: WG1266714-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 07/30/19 19:32
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02 Batch: WG1266714-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	93		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

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: WG1266691-3 WG1266691-4								
Methylene chloride	108		108		70-130	0		30
1,1-Dichloroethane	114		113		70-130	1		30
Chloroform	119		120		70-130	1		30
Carbon tetrachloride	151	Q	150	Q	70-130	1		30
1,2-Dichloropropane	107		108		70-130	1		30
Dibromochloromethane	110		112		70-130	2		30
1,1,2-Trichloroethane	93		93		70-130	0		30
Tetrachloroethene	129		125		70-130	3		30
Chlorobenzene	108		107		70-130	1		30
Trichlorofluoromethane	145	Q	145	Q	70-139	0		30
1,2-Dichloroethane	117		116		70-130	1		30
1,1,1-Trichloroethane	139	Q	137	Q	70-130	1		30
Bromodichloromethane	116		119		70-130	3		30
trans-1,3-Dichloropropene	98		97		70-130	1		30
cis-1,3-Dichloropropene	115		116		70-130	1		30
1,1-Dichloropropene	126		124		70-130	2		30
Bromoform	103		104		70-130	1		30
1,1,2,2-Tetrachloroethane	80		80		70-130	0		30
Benzene	115		114		70-130	1		30
Toluene	105		102		70-130	3		30
Ethylbenzene	107		105		70-130	2		30
Chloromethane	105		101		52-130	4		30
Bromomethane	93		97		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

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: WG1266691-3 WG1266691-4								
Vinyl chloride	98		97		67-130	1		30
Chloroethane	90		90		50-151	0		30
1,1-Dichloroethene	132		129		65-135	2		30
trans-1,2-Dichloroethene	129		127		70-130	2		30
Trichloroethene	125		123		70-130	2		30
1,2-Dichlorobenzene	103		104		70-130	1		30
1,3-Dichlorobenzene	108		106		70-130	2		30
1,4-Dichlorobenzene	105		105		70-130	0		30
Methyl tert butyl ether	106		106		66-130	0		30
p/m-Xylene	114		113		70-130	1		30
o-Xylene	108		107		70-130	1		30
cis-1,2-Dichloroethene	123		124		70-130	1		30
Dibromomethane	117		118		70-130	1		30
Styrene	112		110		70-130	2		30
Dichlorodifluoromethane	100		98		30-146	2		30
Acetone	100		94		54-140	6		30
Carbon disulfide	101		99		59-130	2		30
2-Butanone	100		104		70-130	4		30
Vinyl acetate	102		103		70-130	1		30
4-Methyl-2-pentanone	86		85		70-130	1		30
1,2,3-Trichloropropane	82		82		68-130	0		30
2-Hexanone	78		78		70-130	0		30
Bromochloromethane	134	Q	135	Q	70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

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: WG1266691-3 WG1266691-4								
2,2-Dichloropropane	131	Q	129		70-130	2		30
1,2-Dibromoethane	103		102		70-130	1		30
1,3-Dichloropropane	92		92		69-130	0		30
1,1,1,2-Tetrachloroethane	114		117		70-130	3		30
Bromobenzene	104		103		70-130	1		30
n-Butylbenzene	103		100		70-130	3		30
sec-Butylbenzene	104		103		70-130	1		30
tert-Butylbenzene	109		108		70-130	1		30
o-Chlorotoluene	95		94		70-130	1		30
p-Chlorotoluene	95		94		70-130	1		30
1,2-Dibromo-3-chloropropane	101		104		68-130	3		30
Hexachlorobutadiene	128		126		67-130	2		30
Isopropylbenzene	103		102		70-130	1		30
p-Isopropyltoluene	113		111		70-130	2		30
Naphthalene	106		107		70-130	1		30
Acrylonitrile	105		106		70-130	1		30
n-Propylbenzene	97		94		70-130	3		30
1,2,3-Trichlorobenzene	113		113		70-130	0		30
1,2,4-Trichlorobenzene	113		113		70-130	0		30
1,3,5-Trimethylbenzene	104		102		70-130	2		30
1,2,4-Trimethylbenzene	104		103		70-130	1		30
1,4-Dioxane	103		103		65-136	0		30
p-Diethylbenzene	109		105		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1266691-3 WG1266691-4								
p-Ethyltoluene	100		97		70-130	3		30
1,2,4,5-Tetramethylbenzene	105		105		70-130	0		30
Ethyl ether	100		100		67-130	0		30
trans-1,4-Dichloro-2-butene	80		80		70-130	0		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	96		96		70-130
Toluene-d8	87		87		70-130
4-Bromofluorobenzene	85		86		70-130
Dibromofluoromethane	105		106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1266714-3 WG1266714-4								
Methylene chloride	101		101		70-130	0		30
1,1-Dichloroethane	108		109		70-130	1		30
Chloroform	102		104		70-130	2		30
Carbon tetrachloride	101		101		70-130	0		30
1,2-Dichloropropane	112		112		70-130	0		30
Dibromochloromethane	107		109		70-130	2		30
1,1,2-Trichloroethane	122		127		70-130	4		30
Tetrachloroethene	115		118		70-130	3		30
Chlorobenzene	110		113		70-130	3		30
Trichlorofluoromethane	101		103		70-139	2		30
1,2-Dichloroethane	92		91		70-130	1		30
1,1,1-Trichloroethane	107		107		70-130	0		30
Bromodichloromethane	106		106		70-130	0		30
trans-1,3-Dichloropropene	117		119		70-130	2		30
cis-1,3-Dichloropropene	113		114		70-130	1		30
1,1-Dichloropropene	116		119		70-130	3		30
Bromoform	114		113		70-130	1		30
1,1,2,2-Tetrachloroethane	120		121		70-130	1		30
Benzene	113		112		70-130	1		30
Toluene	118		122		70-130	3		30
Ethylbenzene	122		124		70-130	2		30
Chloromethane	99		100		52-130	1		30
Bromomethane	106		110		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1266714-3 WG1266714-4								
Vinyl chloride	122		126		67-130	3		30
Chloroethane	131		138		50-151	5		30
1,1-Dichloroethene	114		114		65-135	0		30
trans-1,2-Dichloroethene	112		114		70-130	2		30
Trichloroethene	113		113		70-130	0		30
1,2-Dichlorobenzene	106		108		70-130	2		30
1,3-Dichlorobenzene	109		110		70-130	1		30
1,4-Dichlorobenzene	108		108		70-130	0		30
Methyl tert butyl ether	88		88		66-130	0		30
p/m-Xylene	117		121		70-130	3		30
o-Xylene	112		115		70-130	3		30
cis-1,2-Dichloroethene	113		113		70-130	0		30
Dibromomethane	111		108		70-130	3		30
Styrene	111		114		70-130	3		30
Dichlorodifluoromethane	83		85		30-146	2		30
Acetone	74		69		54-140	7		30
Carbon disulfide	99		100		59-130	1		30
2-Butanone	73		74		70-130	1		30
Vinyl acetate	92		91		70-130	1		30
4-Methyl-2-pentanone	110		108		70-130	2		30
1,2,3-Trichloropropane	112		112		68-130	0		30
2-Hexanone	85		82		70-130	4		30
Bromochloromethane	107		106		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1266714-3 WG1266714-4								
2,2-Dichloropropane	107		108		70-130	1		30
1,2-Dibromoethane	114		114		70-130	0		30
1,3-Dichloropropane	117		118		69-130	1		30
1,1,1,2-Tetrachloroethane	108		112		70-130	4		30
Bromobenzene	111		114		70-130	3		30
n-Butylbenzene	128		130		70-130	2		30
sec-Butylbenzene	118		122		70-130	3		30
tert-Butylbenzene	113		116		70-130	3		30
o-Chlorotoluene	98		102		70-130	4		30
p-Chlorotoluene	117		120		70-130	3		30
1,2-Dibromo-3-chloropropane	100		97		68-130	3		30
Hexachlorobutadiene	135	Q	138	Q	67-130	2		30
Isopropylbenzene	116		120		70-130	3		30
p-Isopropyltoluene	117		118		70-130	1		30
Naphthalene	107		107		70-130	0		30
Acrylonitrile	78		81		70-130	4		30
n-Propylbenzene	124		127		70-130	2		30
1,2,3-Trichlorobenzene	111		111		70-130	0		30
1,2,4-Trichlorobenzene	115		115		70-130	0		30
1,3,5-Trimethylbenzene	115		116		70-130	1		30
1,2,4-Trimethylbenzene	114		116		70-130	2		30
1,4-Dioxane	82		79		65-136	4		30
p-Diethylbenzene	115		115		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1266714-3 WG1266714-4								
p-Ethyltoluene	112		115		70-130	3		30
1,2,4,5-Tetramethylbenzene	108		109		70-130	1		30
Ethyl ether	98		98		67-130	0		30
trans-1,4-Dichloro-2-butene	96		93		70-130	3		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	89		89		70-130
Toluene-d8	108		109		70-130
4-Bromofluorobenzene	103		102		70-130
Dibromofluoromethane	95		94		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-01
 Client ID: EP12_6.5_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:30
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/30/19 04:13
 Analyst: RC
 Percent Solids: 96%

Extraction Method: EPA 3546
 Extraction Date: 07/27/19 22:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	81	J	ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	130	J	ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-01
 Client ID: EP12_6.5_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:30
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	49	J	ug/kg	100	19.	1
Benzo(a)pyrene	48	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	67	J	ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	48	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	39	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	36	J	ug/kg	140	24.	1
Pyrene	92	J	ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	830	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-01
 Client ID: EP12_6.5_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:30
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	127	Q	23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	104		10-136
4-Terphenyl-d14	85		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-02
 Client ID: EP10_3_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:40
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/30/19 01:23
 Analyst: RC
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 07/27/19 22:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	40	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-02
 Client ID: EP10_3_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:40
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-02
 Client ID: EP10_3_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:40
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	109		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	89		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/19 22:58
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/27/19 22:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1265491-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	18.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/19 22:58
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/27/19 22:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1265491-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 07/29/19 22:58
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/27/19 22:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1265491-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	76		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1265491-2 WG1265491-3								
Acenaphthene	70		85		31-137	19		50
1,2,4-Trichlorobenzene	74		89		38-107	18		50
Hexachlorobenzene	83		97		40-140	16		50
Bis(2-chloroethyl)ether	66		83		40-140	23		50
2-Chloronaphthalene	76		94		40-140	21		50
1,2-Dichlorobenzene	74		87		40-140	16		50
1,3-Dichlorobenzene	72		84		40-140	15		50
1,4-Dichlorobenzene	72		83		28-104	14		50
3,3'-Dichlorobenzidine	62		74		40-140	18		50
2,4-Dinitrotoluene	92		109		40-132	17		50
2,6-Dinitrotoluene	91		114		40-140	22		50
Fluoranthene	75		91		40-140	19		50
4-Chlorophenyl phenyl ether	75		91		40-140	19		50
4-Bromophenyl phenyl ether	78		94		40-140	19		50
Bis(2-chloroisopropyl)ether	60		74		40-140	21		50
Bis(2-chloroethoxy)methane	72		88		40-117	20		50
Hexachlorobutadiene	74		90		40-140	20		50
Hexachlorocyclopentadiene	77		98		40-140	24		50
Hexachloroethane	72		85		40-140	17		50
Isophorone	72		88		40-140	20		50
Naphthalene	71		89		40-140	23		50
Nitrobenzene	76		94		40-140	21		50
NDPA/DPA	75		91		36-157	19		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1265491-2 WG1265491-3								
n-Nitrosodi-n-propylamine	71		86		32-121	19		50
Bis(2-ethylhexyl)phthalate	74		91		40-140	21		50
Butyl benzyl phthalate	79		97		40-140	20		50
Di-n-butylphthalate	73		89		40-140	20		50
Di-n-octylphthalate	73		90		40-140	21		50
Diethyl phthalate	76		91		40-140	18		50
Dimethyl phthalate	82		101		40-140	21		50
Benzo(a)anthracene	74		89		40-140	18		50
Benzo(a)pyrene	72		87		40-140	19		50
Benzo(b)fluoranthene	74		96		40-140	26		50
Benzo(k)fluoranthene	77		88		40-140	13		50
Chrysene	71		86		40-140	19		50
Acenaphthylene	79		96		40-140	19		50
Anthracene	73		89		40-140	20		50
Benzo(ghi)perylene	76		92		40-140	19		50
Fluorene	75		90		40-140	18		50
Phenanthrene	70		86		40-140	21		50
Dibenzo(a,h)anthracene	76		92		40-140	19		50
Indeno(1,2,3-cd)pyrene	74		90		40-140	20		50
Pyrene	74		90		35-142	20		50
Biphenyl	78		96		54-104	21		50
4-Chloroaniline	56		70		40-140	22		50
2-Nitroaniline	90		116		47-134	25		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1265491-2 WG1265491-3								
3-Nitroaniline	67		77		26-129	14		50
4-Nitroaniline	82		99		41-125	19		50
Dibenzofuran	74		89		40-140	18		50
2-Methylnaphthalene	73		92		40-140	23		50
1,2,4,5-Tetrachlorobenzene	76		94		40-117	21		50
Acetophenone	76		92		14-144	19		50
2,4,6-Trichlorophenol	84		106		30-130	23		50
p-Chloro-m-cresol	83		103		26-103	22		50
2-Chlorophenol	77		94		25-102	20		50
2,4-Dichlorophenol	81		101		30-130	22		50
2,4-Dimethylphenol	84		103		30-130	20		50
2-Nitrophenol	92		116		30-130	23		50
4-Nitrophenol	80		101		11-114	23		50
2,4-Dinitrophenol	94		108		4-130	14		50
4,6-Dinitro-o-cresol	100		121		10-130	19		50
Pentachlorophenol	98		115	Q	17-109	16		50
Phenol	75		93	Q	26-90	21		50
2-Methylphenol	76		95		30-130.	22		50
3-Methylphenol/4-Methylphenol	77		96		30-130	22		50
2,4,5-Trichlorophenol	88		108		30-130	20		50
Benzoic Acid	86		104		10-110	19		50
Benzyl Alcohol	80		96		40-140	18		50
Carbazole	72		89		54-128	21		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1933360

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1265491-2 WG1265491-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		91		25-120
Phenol-d6	74		92		10-120
Nitrobenzene-d5	78		95		23-120
2-Fluorobiphenyl	75		92		30-120
2,4,6-Tribromophenol	87		107		10-136
4-Terphenyl-d14	72		90		18-120

PCBS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-01
 Client ID: EP12_6.5_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:30
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 07/30/19 09:58
 Analyst: AWS
 Percent Solids: 96%

Extraction Method: EPA 3546
 Extraction Date: 07/27/19 21:57
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/28/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/29/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.2	3.04	1	A
Aroclor 1221	ND		ug/kg	34.2	3.43	1	A
Aroclor 1232	ND		ug/kg	34.2	7.26	1	A
Aroclor 1242	ND		ug/kg	34.2	4.62	1	A
Aroclor 1248	ND		ug/kg	34.2	5.14	1	A
Aroclor 1254	ND		ug/kg	34.2	3.75	1	A
Aroclor 1260	ND		ug/kg	34.2	6.33	1	A
Aroclor 1262	ND		ug/kg	34.2	4.35	1	A
Aroclor 1268	ND		ug/kg	34.2	3.55	1	A
PCBs, Total	ND		ug/kg	34.2	3.04	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	102		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-02
 Client ID: EP10_3_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:40
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 07/30/19 09:46
 Analyst: AWS
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 07/27/19 21:57
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/28/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/29/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.4	3.05	1	A
Aroclor 1221	ND		ug/kg	34.4	3.44	1	A
Aroclor 1232	ND		ug/kg	34.4	7.28	1	A
Aroclor 1242	ND		ug/kg	34.4	4.63	1	A
Aroclor 1248	ND		ug/kg	34.4	5.15	1	A
Aroclor 1254	ND		ug/kg	34.4	3.76	1	A
Aroclor 1260	ND		ug/kg	34.4	6.35	1	A
Aroclor 1262	ND		ug/kg	34.4	4.36	1	A
Aroclor 1268	ND		ug/kg	34.4	3.56	1	A
PCBs, Total	ND		ug/kg	34.4	3.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	92		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 07/30/19 02:01
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 07/27/19 21:57
Cleanup Method: EPA 3665A
Cleanup Date: 07/28/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/29/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1265487-1						
Aroclor 1016	ND		ug/kg	33.2	2.95	A
Aroclor 1221	ND		ug/kg	33.2	3.32	A
Aroclor 1232	ND		ug/kg	33.2	7.03	A
Aroclor 1242	ND		ug/kg	33.2	4.47	A
Aroclor 1248	ND		ug/kg	33.2	4.98	A
Aroclor 1254	ND		ug/kg	33.2	3.63	A
Aroclor 1260	ND		ug/kg	33.2	6.13	A
Aroclor 1262	ND		ug/kg	33.2	4.21	A
Aroclor 1268	ND		ug/kg	33.2	3.44	A
PCBs, Total	ND		ug/kg	33.2	2.95	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	66		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1265487-2 WG1265487-3									
Aroclor 1016	89		97		40-140	9		50	A
Aroclor 1260	81		82		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		81		30-150	A
Decachlorobiphenyl	80		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		77		30-150	B
Decachlorobiphenyl	85		81		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-01
 Client ID: EP12_6.5_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:30
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 07/28/19 16:04
 Analyst: AMC
 Percent Solids: 96%

Extraction Method: EPA 3546
 Extraction Date: 07/27/19 20:58
 Cleanup Method: EPA 3620B
 Cleanup Date: 07/28/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.322	1	A
Lindane	ND		ug/kg	0.685	0.306	1	A
Alpha-BHC	ND		ug/kg	0.685	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.623	1	A
Heptachlor	ND		ug/kg	0.822	0.368	1	A
Aldrin	ND		ug/kg	1.64	0.579	1	A
Heptachlor epoxide	ND		ug/kg	3.08	0.925	1	A
Endrin	ND		ug/kg	0.685	0.281	1	A
Endrin aldehyde	ND		ug/kg	2.06	0.719	1	A
Endrin ketone	ND		ug/kg	1.64	0.423	1	A
Dieldrin	ND		ug/kg	1.03	0.514	1	A
4,4'-DDE	ND		ug/kg	1.64	0.380	1	A
4,4'-DDD	ND		ug/kg	1.64	0.586	1	A
4,4'-DDT	ND		ug/kg	3.08	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.388	1	A
Endosulfan II	ND		ug/kg	1.64	0.549	1	A
Endosulfan sulfate	ND		ug/kg	0.685	0.326	1	A
Methoxychlor	ND		ug/kg	3.08	0.959	1	A
Toxaphene	ND		ug/kg	30.8	8.63	1	A
cis-Chlordane	ND		ug/kg	2.06	0.573	1	A
trans-Chlordane	ND		ug/kg	2.06	0.542	1	A
Chlordane	ND		ug/kg	13.4	5.45	1	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-01
 Client ID: EP12_6.5_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:30
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	51		30-150	B
2,4,5,6-Tetrachloro-m-xylene	105		30-150	A
Decachlorobiphenyl	90		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-01
 Client ID: EP12_6.5_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:30
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 07/28/19 20:53
 Analyst: DGM
 Percent Solids: 96%
 Methylation Date: 07/28/19 05:49

Extraction Method: EPA 8151A
 Extraction Date: 07/27/19 08:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	171	10.8	1	A
2,4,5-T	ND		ug/kg	171	5.30	1	A
2,4,5-TP (Silvex)	ND		ug/kg	171	4.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	97		30-150	A
DCAA	82		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-02
 Client ID: EP10_3_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:40
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 07/28/19 16:16
 Analyst: AMC
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 07/27/19 20:58
 Cleanup Method: EPA 3620B
 Cleanup Date: 07/28/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.337	1	A
Lindane	ND		ug/kg	0.718	0.321	1	A
Alpha-BHC	ND		ug/kg	0.718	0.204	1	A
Beta-BHC	ND		ug/kg	1.72	0.653	1	A
Heptachlor	ND		ug/kg	0.862	0.386	1	A
Aldrin	ND		ug/kg	1.72	0.607	1	A
Heptachlor epoxide	ND		ug/kg	3.23	0.969	1	A
Endrin	ND		ug/kg	0.718	0.294	1	A
Endrin aldehyde	ND		ug/kg	2.15	0.754	1	A
Endrin ketone	ND		ug/kg	1.72	0.444	1	A
Dieldrin	ND		ug/kg	1.08	0.538	1	A
4,4'-DDE	ND		ug/kg	1.72	0.398	1	A
4,4'-DDD	ND		ug/kg	1.72	0.614	1	A
4,4'-DDT	ND		ug/kg	3.23	1.38	1	A
Endosulfan I	ND		ug/kg	1.72	0.407	1	A
Endosulfan II	ND		ug/kg	1.72	0.576	1	A
Endosulfan sulfate	ND		ug/kg	0.718	0.342	1	A
Methoxychlor	ND		ug/kg	3.23	1.00	1	A
Toxaphene	ND		ug/kg	32.3	9.05	1	A
cis-Chlordane	ND		ug/kg	2.15	0.600	1	A
trans-Chlordane	ND		ug/kg	2.15	0.569	1	A
Chlordane	ND		ug/kg	14.0	5.71	1	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-02
 Client ID: EP10_3_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:40
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
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Organochlorine Pesticides by GC - Westborough Lab							
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Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	57		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	73		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-02
 Client ID: EP10_3_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:40
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 07/28/19 21:11
 Analyst: DGM
 Percent Solids: 92%
 Methylation Date: 07/28/19 05:49

Extraction Method: EPA 8151A
 Extraction Date: 07/27/19 08:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	179	11.3	1	A
2,4,5-T	ND		ug/kg	179	5.55	1	A
2,4,5-TP (Silvex)	ND		ug/kg	179	4.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	97		30-150	A
DCAA	82		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 07/28/19 17:18
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 07/27/19 03:57

Methylation Date: 07/28/19 05:49

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1265271-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.07	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.35	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	111		30-150	A
DCAA	105		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 07/28/19 16:39
Analyst: AMC

Extraction Method: EPA 3546
Extraction Date: 07/27/19 18:47
Cleanup Method: EPA 3620B
Cleanup Date: 07/28/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1265470-1						
Delta-BHC	ND		ug/kg	1.54	0.302	A
Lindane	ND		ug/kg	0.644	0.288	A
Alpha-BHC	ND		ug/kg	0.644	0.183	A
Beta-BHC	ND		ug/kg	1.54	0.586	A
Heptachlor	ND		ug/kg	0.772	0.346	A
Aldrin	ND		ug/kg	1.54	0.544	A
Heptachlor epoxide	ND		ug/kg	2.90	0.869	A
Endrin	ND		ug/kg	0.644	0.264	A
Endrin aldehyde	ND		ug/kg	1.93	0.676	A
Endrin ketone	ND		ug/kg	1.54	0.398	A
Dieldrin	ND		ug/kg	0.965	0.483	A
4,4'-DDE	ND		ug/kg	1.54	0.357	A
4,4'-DDD	ND		ug/kg	1.54	0.551	A
4,4'-DDT	ND		ug/kg	2.90	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.365	A
Endosulfan II	ND		ug/kg	1.54	0.516	A
Endosulfan sulfate	ND		ug/kg	0.644	0.306	A
Methoxychlor	ND		ug/kg	2.90	0.901	A
Toxaphene	ND		ug/kg	29.0	8.11	A
cis-Chlordane	ND		ug/kg	1.93	0.538	A
trans-Chlordane	ND		ug/kg	1.93	0.510	A
Chlordane	ND		ug/kg	12.5	5.12	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/28/19 16:39
Analyst: AMC

Extraction Method: EPA 3546
Extraction Date: 07/27/19 18:47
Cleanup Method: EPA 3620B
Cleanup Date: 07/28/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1265470-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	53		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	71		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1265271-2 WG1265271-3									
2,4-D	98		114		30-150	15		30	A
2,4,5-T	94		111		30-150	17		30	A
2,4,5-TP (Silvex)	94		111		30-150	17		30	A

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria	Column
DCAA	88		94		30-150	A
DCAA	92		103		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1265470-2 WG1265470-3									
Delta-BHC	85		94		30-150	10		30	A
Lindane	84		90		30-150	7		30	A
Alpha-BHC	92		96		30-150	4		30	A
Beta-BHC	82		83		30-150	1		30	A
Heptachlor	80		86		30-150	7		30	A
Aldrin	72		79		30-150	9		30	A
Heptachlor epoxide	71		75		30-150	5		30	A
Endrin	80		88		30-150	10		30	A
Endrin aldehyde	48		56		30-150	15		30	A
Endrin ketone	76		84		30-150	10		30	A
Dieldrin	82		90		30-150	9		30	A
4,4'-DDE	73		80		30-150	9		30	A
4,4'-DDD	81		90		30-150	11		30	A
4,4'-DDT	74		82		30-150	10		30	A
Endosulfan I	70		78		30-150	11		30	A
Endosulfan II	77		85		30-150	10		30	A
Endosulfan sulfate	72		80		30-150	11		30	A
Methoxychlor	63		70		30-150	11		30	A
cis-Chlordane	58		64		30-150	10		30	A
trans-Chlordane	66		71		30-150	7		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1933360

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1265470-2 WG1265470-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		83		30-150	B
Decachlorobiphenyl	55		63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		82		30-150	A
Decachlorobiphenyl	73		82		30-150	A

METALS

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-01
 Client ID: EP12_6.5_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:30
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1900		mg/kg	8.07	2.18	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Antimony, Total	ND		mg/kg	4.04	0.307	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Arsenic, Total	0.928		mg/kg	0.807	0.168	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Barium, Total	24.6		mg/kg	0.807	0.140	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Beryllium, Total	0.121	J	mg/kg	0.404	0.027	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Cadmium, Total	0.081	J	mg/kg	0.807	0.079	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Calcium, Total	3760		mg/kg	8.07	2.82	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Chromium, Total	6.10		mg/kg	0.807	0.078	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Cobalt, Total	3.04		mg/kg	1.61	0.134	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Copper, Total	9.43		mg/kg	0.807	0.208	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Iron, Total	4800		mg/kg	4.04	0.729	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Lead, Total	23.1		mg/kg	4.04	0.216	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Magnesium, Total	1370		mg/kg	8.07	1.24	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Manganese, Total	164		mg/kg	0.807	0.128	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Mercury, Total	ND		mg/kg	0.065	0.043	1	07/27/19 08:00	07/29/19 11:53	EPA 7471B	1,7471B	GD
Nickel, Total	7.68		mg/kg	2.02	0.195	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Potassium, Total	380		mg/kg	202	11.6	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Selenium, Total	ND		mg/kg	1.61	0.208	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Silver, Total	ND		mg/kg	0.807	0.228	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Sodium, Total	55.6	J	mg/kg	161	2.54	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Thallium, Total	ND		mg/kg	1.61	0.254	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Vanadium, Total	7.08		mg/kg	0.807	0.164	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
Zinc, Total	19.3		mg/kg	4.04	0.236	2	07/27/19 07:30	07/28/19 13:45	EPA 3050B	1,6010D	PS
General Chemistry - Mansfield Lab											
Chromium, Trivalent	6.1		mg/kg	0.83	0.83	1		07/29/19 09:39	NA	107,-	



Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-02
 Client ID: EP10_3_072619
 Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:40
 Date Received: 07/26/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1670		mg/kg	8.37	2.26	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Antimony, Total	ND		mg/kg	4.19	0.318	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Arsenic, Total	0.201	J	mg/kg	0.837	0.174	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Barium, Total	17.1		mg/kg	0.837	0.146	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Beryllium, Total	0.117	J	mg/kg	0.419	0.028	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Cadmium, Total	ND		mg/kg	0.837	0.082	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Calcium, Total	491		mg/kg	8.37	2.93	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Chromium, Total	4.57		mg/kg	0.837	0.080	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Cobalt, Total	2.32		mg/kg	1.67	0.139	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Copper, Total	7.41		mg/kg	0.837	0.216	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Iron, Total	4420		mg/kg	4.19	0.756	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Lead, Total	2.23	J	mg/kg	4.19	0.224	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Magnesium, Total	931		mg/kg	8.37	1.29	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Manganese, Total	238		mg/kg	0.837	0.133	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Mercury, Total	ND		mg/kg	0.068	0.045	1	07/27/19 08:00	07/29/19 11:55	EPA 7471B	1,7471B	GD
Nickel, Total	6.28		mg/kg	2.09	0.203	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Potassium, Total	289		mg/kg	209	12.0	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Selenium, Total	ND		mg/kg	1.67	0.216	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Silver, Total	ND		mg/kg	0.837	0.237	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Sodium, Total	49.0	J	mg/kg	167	2.64	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Thallium, Total	ND		mg/kg	1.67	0.264	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Vanadium, Total	7.83		mg/kg	0.837	0.170	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
Zinc, Total	7.02		mg/kg	4.19	0.245	2	07/27/19 07:30	07/28/19 13:49	EPA 3050B	1,6010D	PS
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.6		mg/kg	0.87	0.87	1		07/29/19 09:39	NA	107,-	



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

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): 01-02 Batch: WG1265297-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	07/27/19 08:00	07/29/19 11:30	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1265299-1									
Aluminum, Total	ND	mg/kg	4.00	1.08	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Antimony, Total	0.176 J	mg/kg	2.00	0.152	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Arsenic, Total	ND	mg/kg	0.400	0.083	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Barium, Total	ND	mg/kg	0.400	0.070	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Beryllium, Total	ND	mg/kg	0.200	0.013	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Cadmium, Total	ND	mg/kg	0.400	0.039	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Calcium, Total	ND	mg/kg	4.00	1.40	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Chromium, Total	ND	mg/kg	0.400	0.038	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Cobalt, Total	ND	mg/kg	0.800	0.066	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Copper, Total	ND	mg/kg	0.400	0.103	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Iron, Total	ND	mg/kg	2.00	0.361	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Lead, Total	ND	mg/kg	2.00	0.107	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Magnesium, Total	ND	mg/kg	4.00	0.616	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Manganese, Total	0.348 J	mg/kg	0.400	0.064	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Nickel, Total	ND	mg/kg	1.00	0.097	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Potassium, Total	ND	mg/kg	100	5.76	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Selenium, Total	ND	mg/kg	0.800	0.103	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Silver, Total	ND	mg/kg	0.400	0.113	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Sodium, Total	ND	mg/kg	80.0	1.26	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Thallium, Total	ND	mg/kg	0.800	0.126	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Vanadium, Total	ND	mg/kg	0.400	0.081	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS
Zinc, Total	ND	mg/kg	2.00	0.117	1	07/27/19 07:30	07/28/19 12:10	1,6010D	PS

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1265297-2 SRM Lot Number: D105-540								
Mercury, Total	106		-		60-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1933360

Report Date: 07/31/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1265299-2 SRM Lot Number: D105-540					
Aluminum, Total	60	-	51-149	-	
Antimony, Total	131	-	19-249	-	
Arsenic, Total	98	-	70-130	-	
Barium, Total	92	-	75-125	-	
Beryllium, Total	97	-	75-125	-	
Cadmium, Total	93	-	75-125	-	
Calcium, Total	85	-	73-127	-	
Chromium, Total	87	-	70-130	-	
Cobalt, Total	92	-	75-125	-	
Copper, Total	90	-	75-125	-	
Iron, Total	74	-	38-162	-	
Lead, Total	90	-	71-128	-	
Magnesium, Total	80	-	63-137	-	
Manganese, Total	89	-	76-124	-	
Nickel, Total	92	-	70-131	-	
Potassium, Total	80	-	60-140	-	
Selenium, Total	97	-	63-137	-	
Silver, Total	92	-	69-131	-	
Sodium, Total	101	-	37-162	-	
Thallium, Total	92	-	68-132	-	
Vanadium, Total	86	-	65-135	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1265299-2 SRM Lot Number: D105-540					
Zinc, Total	92	-	70-130	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1265297-3 QC Sample: L1933322-01 Client ID: MS Sample												
Mercury, Total	0.063J	0.138	0.230	166	Q	-	-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1265299-3 QC Sample: L1933322-01 Client ID: MS Sample									
Aluminum, Total	6740	162	7210	289	Q	-	75-125	-	20
Antimony, Total	ND	40.6	31.7	78		-	75-125	-	20
Arsenic, Total	1.84	9.75	11.0	94		-	75-125	-	20
Barium, Total	101	162	241	86		-	75-125	-	20
Beryllium, Total	0.270J	4.06	4.02	99		-	75-125	-	20
Cadmium, Total	0.185J	4.14	3.91	94		-	75-125	-	20
Calcium, Total	5640	812	5990	43	Q	-	75-125	-	20
Chromium, Total	13.5	16.2	28.1	90		-	75-125	-	20
Cobalt, Total	5.68	40.6	40.9	87		-	75-125	-	20
Copper, Total	18.3	20.3	42.2	118		-	75-125	-	20
Iron, Total	12000	81.2	12000	0	Q	-	75-125	-	20
Lead, Total	42.3	41.4	72.0	72	Q	-	75-125	-	20
Magnesium, Total	2720	812	3550	102		-	75-125	-	20
Manganese, Total	378	40.6	370	0	Q	-	75-125	-	20
Nickel, Total	10.9	40.6	45.8	86		-	75-125	-	20
Potassium, Total	1100	812	2000	111		-	75-125	-	20
Selenium, Total	ND	9.75	8.70	89		-	75-125	-	20
Silver, Total	ND	24.4	22.3	92		-	75-125	-	20
Sodium, Total	132J	812	933	115		-	75-125	-	20
Thallium, Total	ND	9.75	7.28	75		-	75-125	-	20
Vanadium, Total	18.8	40.6	57.8	96		-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1265299-3 QC Sample: L1933322-01 Client ID: MS Sample									
Zinc, Total	83.9	40.6	97.2	33	Q	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1933360

Report Date: 07/31/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1265297-4 QC Sample: L1933322-01 Client ID: DUP Sample						
Mercury, Total	0.063J	0.087	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1933360

Report Date: 07/31/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1265299-4 QC Sample: L1933322-01 Client ID: DUP Sample					
Aluminum, Total	6740	6850	mg/kg	2	20
Antimony, Total	ND	ND	mg/kg	NC	20
Arsenic, Total	1.84	1.72	mg/kg	7	20
Barium, Total	101	78.3	mg/kg	25	Q 20
Beryllium, Total	0.270J	0.212J	mg/kg	NC	20
Cadmium, Total	0.185J	0.169J	mg/kg	NC	20
Calcium, Total	5640	4930	mg/kg	13	20
Chromium, Total	13.5	14.3	mg/kg	6	20
Cobalt, Total	5.68	5.73	mg/kg	1	20
Copper, Total	18.3	17.8	mg/kg	3	20
Iron, Total	12000	11700	mg/kg	3	20
Lead, Total	42.3	32.9	mg/kg	25	Q 20
Magnesium, Total	2720	2790	mg/kg	3	20
Manganese, Total	378	322	mg/kg	16	20
Nickel, Total	10.9	10.9	mg/kg	0	20
Potassium, Total	1100	1080	mg/kg	2	20
Selenium, Total	ND	0.246J	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	132J	126J	mg/kg	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1933360

Report Date: 07/31/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1265299-4 QC Sample: L1933322-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	18.8	19.8	mg/kg	5	20
Zinc, Total	83.9	53.0	mg/kg	45	20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-01
Client ID: EP12_6.5_072619
Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:30
Date Received: 07/26/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.1		%	0.100	NA	1	-	07/27/19 07:50	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	07/28/19 17:35	07/29/19 13:08	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.832	0.166	1	07/29/19 00:40	07/29/19 09:39	1,7196A	NH



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1933360-02
Client ID: EP10_3_072619
Sample Location: NY, NY 10027

Date Collected: 07/26/19 15:40
Date Received: 07/26/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	07/27/19 07:50	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	07/28/19 17:35	07/29/19 13:09	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.870	0.174	1	07/29/19 00:40	07/29/19 09:39	1,7196A	NH



Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

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): 01-02 Batch: WG1265580-1									
Cyanide, Total	ND	mg/kg	0.86	0.18	1	07/28/19 17:35	07/29/19 12:49	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1265616-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	07/29/19 00:40	07/29/19 09:39	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1933360

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1265580-2 WG1265580-3								
Cyanide, Total	59	Q	65	Q	80-120	13		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1265616-2								
Chromium, Hexavalent	84		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1933360

Project Number: 170500202

Report Date: 07/31/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1265580-4 WG1265580-5 QC Sample: L1933309-07 Client ID: MS Sample												
Cyanide, Total	0.24J	10	9.8	91		10	95		75-125	2		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1265616-4 QC Sample: L1933360-02 Client ID: EP10_3_072619												
Chromium, Hexavalent	ND	839	758	90		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1933360

Report Date: 07/31/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1265310-1 QC Sample: L1932567-06 Client ID: DUP Sample						
Solids, Total	40.0	39.0	%	3		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1265616-6 QC Sample: L1933360-02 Client ID: EP10_3_072619						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Serial_No:07311915:14
Lab Number: L1933360
Report Date: 07/31/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1933360-01A	Vial MeOH preserved	A	NA		2.0	Y	Absent		NYTCL-8260HLW(14)
L1933360-01B	Vial water preserved	A	NA		2.0	Y	Absent	27-JUL-19 04:21	NYTCL-8260HLW(14)
L1933360-01C	Vial water preserved	A	NA		2.0	Y	Absent	27-JUL-19 04:21	NYTCL-8260HLW(14)
L1933360-01D	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L1933360-01E	Glass 120ml/4oz unpreserved	A	NA		2.0	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)
L1933360-01F	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		HEXCR-7196(30)
L1933360-01G	Glass 500ml/16oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1933360-02A	Vial MeOH preserved	A	NA		2.0	Y	Absent		NYTCL-8260HLW(14)
L1933360-02B	Vial water preserved	A	NA		2.0	Y	Absent	27-JUL-19 04:21	NYTCL-8260HLW(14)
L1933360-02C	Vial water preserved	A	NA		2.0	Y	Absent	27-JUL-19 04:21	NYTCL-8260HLW(14)
L1933360-02D	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L1933360-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.0	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)
L1933360-02F	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		HEXCR-7196(30)
L1933360-02G	Glass 500ml/16oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

- 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

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1933360
Report Date: 07/31/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

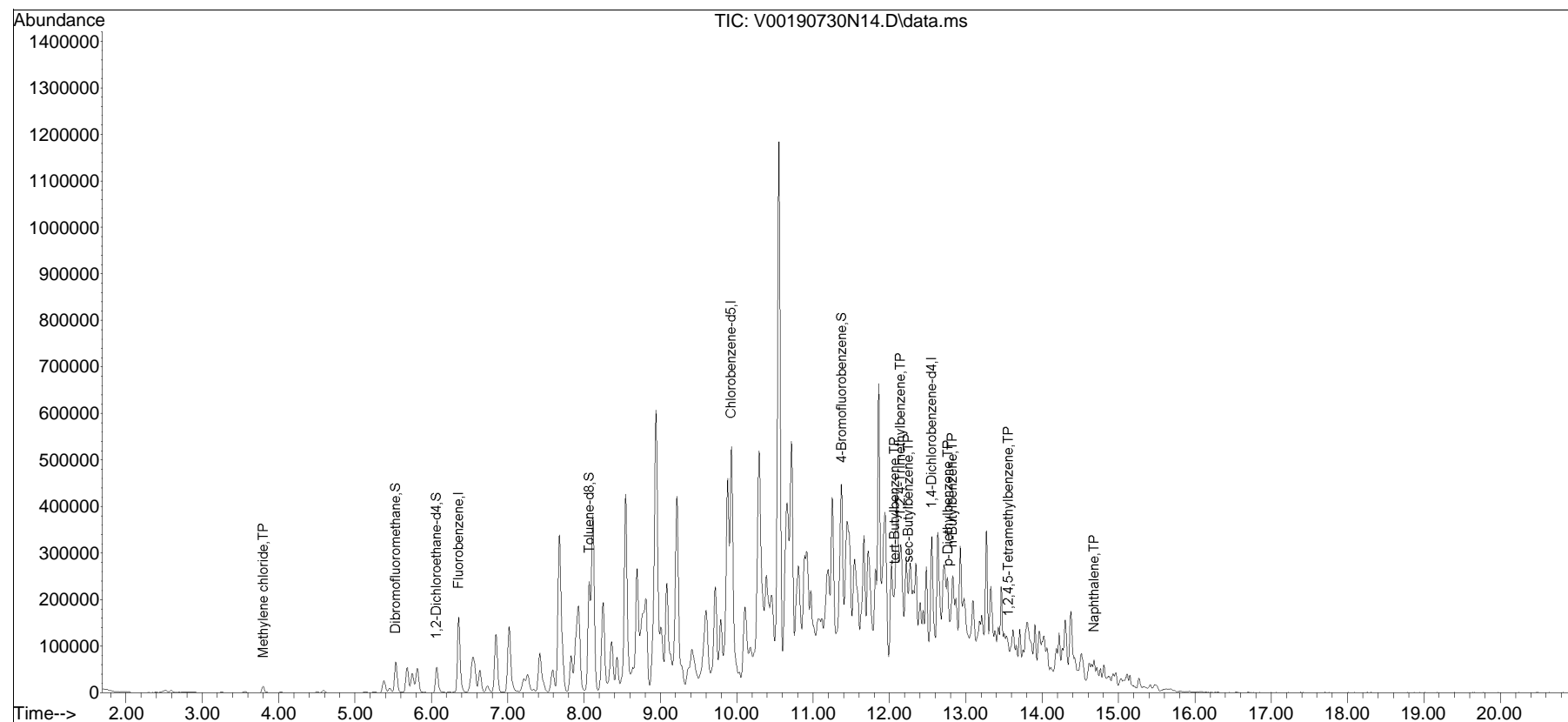
 <p>NEW YORK CHAIN OF CUSTODY</p> <p>Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193</p> <p>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288</p>		<p>Service Centers</p> <p>Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105</p>		<p>Page 1 of 1</p>		<p>Date Rec'd in Lab 7/26/19</p>		<p>ALPHA Job # L1933360</p>									
<p>Client Information</p> <p>Client: LANGAN, OPC</p> <p>Address: xxx</p> <p>Phone:</p> <p>Fax:</p> <p>Email: G.WYKA@LANGAN.COM</p>		<p>Project Information</p> <p>Project Name: 300 West 122nd St.</p> <p>Project Location: NY, NY 10087</p> <p>Project # 170500202</p> <p>(Use Project name as Project #) <input type="checkbox"/></p> <p>Project Manager: Greg Wyka</p> <p>ALPHAQuote #: 688</p> <p>Turn-Around Time</p> <p>Standard <input type="checkbox"/> Due Date: 7/30/19</p> <p>Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days: 7/30/19</p>		<p>Deliverables</p> <p><input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B</p> <p><input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File)</p> <p><input type="checkbox"/> Other</p>		<p>Billing Information</p> <p><input checked="" type="checkbox"/> Same as Client Info</p> <p>PO #</p>		<p>Regulatory Requirement</p> <p><input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375</p> <p><input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51</p> <p><input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other TCL</p> <p><input type="checkbox"/> NY Unrestricted Use</p> <p><input type="checkbox"/> NYC Sewer Discharge</p>		<p>Disposal Site Information</p> <p>Please identify below location of applicable disposal facilities.</p> <p>Disposal Facility:</p> <p><input type="checkbox"/> NJ <input type="checkbox"/> NY</p> <p><input type="checkbox"/> Other:</p>							
<p>These samples have been previously analyzed by Alpha <input type="checkbox"/></p> <p>Other project specific requirements/comments:</p>		<p>ANALYSIS</p> <p>Part 375/TCL VOCs SVOCs PCBs Pest/Perb TCL metals + hex/hexi-chloro + bot. cyanide</p>		<p>Sample Filtration</p> <p><input type="checkbox"/> Done</p> <p><input type="checkbox"/> Lab to do</p> <p>Preservation</p> <p><input type="checkbox"/> Lab to do</p> <p>(Please Specify below)</p>		<p>Sample Specific Comments</p>		<p>Total Bottles</p>									
<p>ALPHA Lab ID (Lab Use Only)</p>		<p>Sample ID</p>		<p>Collection</p> <p>Date Time</p>		<p>Sample Matrix</p>		<p>Sampler's Initials</p>		<p>Analysis</p>		<p>Preservative</p>		<p>Container Type</p>			
<p>33360-01</p>		<p>EP12-6.5-072619</p>		<p>7/26/19 1530</p>		<p>SOIL</p>		<p>AS</p>		<p>X X X X X</p>		<p>X X X X X</p>		<p></p>			
<p>-02</p>		<p>EP10-3-072619</p>		<p>7/26/19 1540</p>		<p>SOIL</p>		<p>AS</p>		<p>X X X X X</p>		<p>X X X X X</p>		<p></p>			
<p>Preservative Code:</p> <p>A = None B = HCl C = HNO₃ D = H₂SO₄ E = NaOH F = MeOH G = NaHSO₄ H = Na₂S₂O₃ K/E = Zn Ac/NaOH O = Other</p>		<p>Container Code</p> <p>P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle</p>		<p>Westboro: Certification No: MA935 Mansfield: Certification No: MA015</p>		<p>Relinquished By:</p> <p><i>Ashley Steppenbeck</i> <i>W. S.</i></p>		<p>Date/Time</p> <p>7/26/19 15:55 7/26/19 17:55 7/26/19 22:45</p>		<p>Received By:</p> <p><i>[Signature]</i> <i>P.S. AAC</i> <i>[Signature]</i></p>		<p>Date/Time</p> <p>7/26/19 15:58 7/26/19 19:30 7/26/19 20:15</p>		<p>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.)</p>			

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA100\2019\190730N\
Data File : V00190730N14.D
Acq On : 30 Jul 2019 11:31 pm
Operator : VOA100:MV
Sample : 11933360-02D,31H,5.07,5,0.050,,a
Misc : WG1266714,ICAL15879
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 31 08:36:55 2019
Quant Method : I:\VOLATILES\VOA100\2019\190730N\V100_190614N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jun 17 12:25:42 2019
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox90730N\V00190730N01.D•





ANALYTICAL REPORT

Lab Number:	L1918914
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	05/13/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1918914-01	EP11_10_050719	SOIL	NY, NY	05/07/19 14:15	05/07/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

Case Narrative (continued)

Report Submission

May 13, 2019: This final report includes the results of all requested analyses.

May 10, 2019: This is a preliminary report.

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

Total Metals

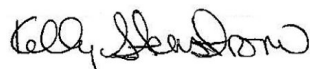
L1918914-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

The WG1234818-2/-3 LCS/LCSD recoveries (42%/44%), associated with L1918914-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: 05/13/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

SAMPLE RESULTS

Lab ID: L1918914-01
 Client ID: EP11_10_050719
 Sample Location: NY, NY

Date Collected: 05/07/19 14:15
 Date Received: 05/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 05/09/19 10:40
 Analyst: JC
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	0.66	J	ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.0	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

SAMPLE RESULTS

Lab ID: L1918914-01
 Client ID: EP11_10_050719
 Sample Location: NY, NY

Date Collected: 05/07/19 14:15
 Date Received: 05/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	10		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.14	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.20	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

SAMPLE RESULTS

Lab ID: L1918914-01
Client ID: EP11_10_050719
Sample Location: NY, NY

Date Collected: 05/07/19 14:15
Date Received: 05/07/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	82	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.20	1
Ethyl ether	ND		ug/kg	2.0	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	98		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 05/09/19 08:30
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1235363-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 05/09/19 08:30
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1235363-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 05/09/19 08:30
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1235363-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1235363-3 WG1235363-4								
Methylene chloride	96		93		70-130	3		30
1,1-Dichloroethane	98		88		70-130	11		30
Chloroform	89		81		70-130	9		30
Carbon tetrachloride	91		80		70-130	13		30
1,2-Dichloropropane	96		88		70-130	9		30
Dibromochloromethane	93		88		70-130	6		30
1,1,2-Trichloroethane	91		89		70-130	2		30
Tetrachloroethene	95		84		70-130	12		30
Chlorobenzene	91		82		70-130	10		30
Trichlorofluoromethane	78		66	Q	70-139	17		30
1,2-Dichloroethane	90		86		70-130	5		30
1,1,1-Trichloroethane	91		79		70-130	14		30
Bromodichloromethane	89		84		70-130	6		30
trans-1,3-Dichloropropene	96		91		70-130	5		30
cis-1,3-Dichloropropene	94		89		70-130	5		30
1,1-Dichloropropene	94		82		70-130	14		30
Bromoform	88		87		70-130	1		30
1,1,2,2-Tetrachloroethane	86		86		70-130	0		30
Benzene	93		83		70-130	11		30
Toluene	91		81		70-130	12		30
Ethylbenzene	90		80		70-130	12		30
Chloromethane	107		94		52-130	13		30
Bromomethane	61		55	Q	57-147	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1235363-3 WG1235363-4								
Vinyl chloride	93		79		67-130	16		30
Chloroethane	78		68		50-151	14		30
1,1-Dichloroethene	99		86		65-135	14		30
trans-1,2-Dichloroethene	94		83		70-130	12		30
Trichloroethene	91		81		70-130	12		30
1,2-Dichlorobenzene	90		84		70-130	7		30
1,3-Dichlorobenzene	91		83		70-130	9		30
1,4-Dichlorobenzene	89		86		70-130	3		30
Methyl tert butyl ether	90		88		66-130	2		30
p/m-Xylene	92		82		70-130	11		30
o-Xylene	89		81		70-130	9		30
cis-1,2-Dichloroethene	92		83		70-130	10		30
Dibromomethane	89		84		70-130	6		30
Styrene	90		82		70-130	9		30
Dichlorodifluoromethane	100		86		30-146	15		30
Acetone	96		92		54-140	4		30
Carbon disulfide	97		84		59-130	14		30
2-Butanone	76		77		70-130	1		30
Vinyl acetate	95		88		70-130	8		30
4-Methyl-2-pentanone	88		90		70-130	2		30
1,2,3-Trichloropropane	86		86		68-130	0		30
2-Hexanone	79		77		70-130	3		30
Bromochloromethane	93		92		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1235363-3 WG1235363-4								
2,2-Dichloropropane	92		80		70-130	14		30
1,2-Dibromoethane	92		89		70-130	3		30
1,3-Dichloropropane	92		88		69-130	4		30
1,1,1,2-Tetrachloroethane	93		85		70-130	9		30
Bromobenzene	88		83		70-130	6		30
n-Butylbenzene	89		80		70-130	11		30
sec-Butylbenzene	88		80		70-130	10		30
tert-Butylbenzene	88		78		70-130	12		30
o-Chlorotoluene	90		82		70-130	9		30
p-Chlorotoluene	89		82		70-130	8		30
1,2-Dibromo-3-chloropropane	83		87		68-130	5		30
Hexachlorobutadiene	92		82		67-130	11		30
Isopropylbenzene	88		79		70-130	11		30
p-Isopropyltoluene	90		80		70-130	12		30
Naphthalene	81		80		70-130	1		30
Acrylonitrile	96		91		70-130	5		30
n-Propylbenzene	88		79		70-130	11		30
1,2,3-Trichlorobenzene	89		84		70-130	6		30
1,2,4-Trichlorobenzene	90		84		70-130	7		30
1,3,5-Trimethylbenzene	90		81		70-130	11		30
1,2,4-Trimethylbenzene	90		81		70-130	11		30
1,4-Dioxane	86		90		65-136	5		30
p-Diethylbenzene	91		81		70-130	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1235363-3 WG1235363-4								
p-Ethyltoluene	91		81		70-130	12		30
1,2,4,5-Tetramethylbenzene	87		80		70-130	8		30
Ethyl ether	100		96		67-130	4		30
trans-1,4-Dichloro-2-butene	88		93		70-130	6		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	99		99		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	96		98		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

SAMPLE RESULTS

Lab ID: L1918914-01
 Client ID: EP11_10_050719
 Sample Location: NY, NY

Date Collected: 05/07/19 14:15
 Date Received: 05/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/10/19 14:21
 Analyst: RC
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 05/09/19 09:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

SAMPLE RESULTS

Lab ID: L1918914-01
 Client ID: EP11_10_050719
 Sample Location: NY, NY

Date Collected: 05/07/19 14:15
 Date Received: 05/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	830	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

SAMPLE RESULTS

Lab ID: L1918914-01
 Client ID: EP11_10_050719
 Sample Location: NY, NY

Date Collected: 05/07/19 14:15
 Date Received: 05/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	79		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/10/19 10:03
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 05/09/19 09:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1235315-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	91	J	ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/10/19 10:03
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 05/09/19 09:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1235315-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 05/10/19 10:03
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 05/09/19 09:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1235315-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	72		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1235315-2 WG1235315-3								
Acenaphthene	80		74		31-137	8		50
1,2,4-Trichlorobenzene	76		70		38-107	8		50
Hexachlorobenzene	81		77		40-140	5		50
Bis(2-chloroethyl)ether	78		71		40-140	9		50
2-Chloronaphthalene	77		71		40-140	8		50
1,2-Dichlorobenzene	75		68		40-140	10		50
1,3-Dichlorobenzene	73		66		40-140	10		50
1,4-Dichlorobenzene	73		66		28-104	10		50
3,3'-Dichlorobenzidine	71		69		40-140	3		50
2,4-Dinitrotoluene	94		90		40-132	4		50
2,6-Dinitrotoluene	97		88		40-140	10		50
Fluoranthene	87		79		40-140	10		50
4-Chlorophenyl phenyl ether	78		74		40-140	5		50
4-Bromophenyl phenyl ether	83		78		40-140	6		50
Bis(2-chloroisopropyl)ether	73		66		40-140	10		50
Bis(2-chloroethoxy)methane	81		75		40-117	8		50
Hexachlorobutadiene	76		69		40-140	10		50
Hexachlorocyclopentadiene	89		81		40-140	9		50
Hexachloroethane	75		69		40-140	8		50
Isophorone	85		79		40-140	7		50
Naphthalene	80		72		40-140	11		50
Nitrobenzene	86		77		40-140	11		50
NDPA/DPA	83		78		36-157	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1235315-2 WG1235315-3								
n-Nitrosodi-n-propylamine	83		80		32-121			50
Bis(2-ethylhexyl)phthalate	100		94		40-140			50
Butyl benzyl phthalate	98		91		40-140			50
Di-n-butylphthalate	98		89		40-140			50
Di-n-octylphthalate	105		98		40-140			50
Diethyl phthalate	84		79		40-140			50
Dimethyl phthalate	85		79		40-140			50
Benzo(a)anthracene	94		87		40-140			50
Benzo(a)pyrene	92		86		40-140			50
Benzo(b)fluoranthene	90		84		40-140			50
Benzo(k)fluoranthene	98		91		40-140			50
Chrysene	87		80		40-140			50
Acenaphthylene	86		79		40-140			50
Anthracene	85		78		40-140			50
Benzo(ghi)perylene	87		80		40-140			50
Fluorene	82		78		40-140			50
Phenanthrene	80		74		40-140			50
Dibenzo(a,h)anthracene	88		82		40-140			50
Indeno(1,2,3-cd)pyrene	92		81		40-140			50
Pyrene	83		78		35-142			50
Biphenyl	83		77		54-104			50
4-Chloroaniline	76		73		40-140			50
2-Nitroaniline	92		86		47-134			50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1235315-2 WG1235315-3								
3-Nitroaniline	64		63		26-129	2		50
4-Nitroaniline	83		78		41-125	6		50
Dibenzofuran	81		76		40-140	6		50
2-Methylnaphthalene	80		74		40-140	8		50
1,2,4,5-Tetrachlorobenzene	79		74		40-117	7		50
Acetophenone	88		81		14-144	8		50
2,4,6-Trichlorophenol	90		84		30-130	7		50
p-Chloro-m-cresol	92		84		26-103	9		50
2-Chlorophenol	83		75		25-102	10		50
2,4-Dichlorophenol	88		83		30-130	6		50
2,4-Dimethylphenol	85		79		30-130	7		50
2-Nitrophenol	94		88		30-130	7		50
4-Nitrophenol	103		95		11-114	8		50
2,4-Dinitrophenol	99		94		4-130	5		50
4,6-Dinitro-o-cresol	109		105		10-130	4		50
Pentachlorophenol	88		82		17-109	7		50
Phenol	81		75		26-90	8		50
2-Methylphenol	84		78		30-130	7		50
3-Methylphenol/4-Methylphenol	84		80		30-130	5		50
2,4,5-Trichlorophenol	88		83		30-130	6		50
Benzoic Acid	77		78		10-110	1		50
Benzyl Alcohol	87		80		40-140	8		50
Carbazole	84		78		54-128	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1235315-2 WG1235315-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	87		79		25-120
Phenol-d6	87		80		10-120
Nitrobenzene-d5	89		83		23-120
2-Fluorobiphenyl	86		79		30-120
2,4,6-Tribromophenol	97		92		10-136
4-Terphenyl-d14	90		83		18-120

PCBS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

SAMPLE RESULTS

Lab ID: L1918914-01
 Client ID: EP11_10_050719
 Sample Location: NY, NY

Date Collected: 05/07/19 14:15
 Date Received: 05/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 05/10/19 05:24
 Analyst: WR
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 05/09/19 10:18
 Cleanup Method: EPA 3665A
 Cleanup Date: 05/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 05/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.6	3.07	1	A
Aroclor 1221	ND		ug/kg	34.6	3.46	1	A
Aroclor 1232	ND		ug/kg	34.6	7.33	1	A
Aroclor 1242	ND		ug/kg	34.6	4.66	1	A
Aroclor 1248	ND		ug/kg	34.6	5.19	1	A
Aroclor 1254	ND		ug/kg	34.6	3.78	1	A
Aroclor 1260	ND		ug/kg	34.6	6.39	1	A
Aroclor 1262	ND		ug/kg	34.6	4.39	1	A
Aroclor 1268	ND		ug/kg	34.6	3.58	1	A
PCBs, Total	ND		ug/kg	34.6	3.07	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 05/10/19 04:47
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 05/09/19 10:18
Cleanup Method: EPA 3665A
Cleanup Date: 05/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 05/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1235331-1						
Aroclor 1016	ND		ug/kg	31.7	2.82	A
Aroclor 1221	ND		ug/kg	31.7	3.18	A
Aroclor 1232	ND		ug/kg	31.7	6.72	A
Aroclor 1242	ND		ug/kg	31.7	4.28	A
Aroclor 1248	ND		ug/kg	31.7	4.76	A
Aroclor 1254	ND		ug/kg	31.7	3.47	A
Aroclor 1260	ND		ug/kg	31.7	5.86	A
Aroclor 1262	ND		ug/kg	31.7	4.03	A
Aroclor 1268	ND		ug/kg	31.7	3.29	A
PCBs, Total	ND		ug/kg	31.7	2.82	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	93		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1235331-2 WG1235331-3									
Aroclor 1016	79		81		40-140	3		50	A
Aroclor 1260	77		81		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		85		30-150	A
Decachlorobiphenyl	79		84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		76		30-150	B
Decachlorobiphenyl	81		93		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

SAMPLE RESULTS

Lab ID: L1918914-01
 Client ID: EP11_10_050719
 Sample Location: NY, NY

Date Collected: 05/07/19 14:15
 Date Received: 05/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 05/10/19 11:24
 Analyst: AMC
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 05/09/19 11:08
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.63	0.319	1	A
Lindane	ND		ug/kg	0.680	0.304	1	A
Alpha-BHC	ND		ug/kg	0.680	0.193	1	A
Beta-BHC	ND		ug/kg	1.63	0.618	1	A
Heptachlor	ND		ug/kg	0.816	0.366	1	A
Aldrin	ND		ug/kg	1.63	0.574	1	A
Heptachlor epoxide	ND		ug/kg	3.06	0.917	1	A
Endrin	ND		ug/kg	0.680	0.279	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.714	1	A
Endrin ketone	ND		ug/kg	1.63	0.420	1	A
Dieldrin	ND		ug/kg	1.02	0.510	1	A
4,4'-DDE	ND		ug/kg	1.63	0.377	1	A
4,4'-DDD	ND		ug/kg	1.63	0.582	1	A
4,4'-DDT	ND		ug/kg	3.06	1.31	1	A
Endosulfan I	ND		ug/kg	1.63	0.385	1	A
Endosulfan II	ND		ug/kg	1.63	0.545	1	A
Endosulfan sulfate	ND		ug/kg	0.680	0.323	1	A
Methoxychlor	ND		ug/kg	3.06	0.951	1	A
Toxaphene	ND		ug/kg	30.6	8.56	1	A
cis-Chlordane	ND		ug/kg	2.04	0.568	1	A
trans-Chlordane	ND		ug/kg	2.04	0.538	1	A
Chlordane	ND		ug/kg	13.2	5.40	1	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

SAMPLE RESULTS

Lab ID: L1918914-01
 Client ID: EP11_10_050719
 Sample Location: NY, NY

Date Collected: 05/07/19 14:15
 Date Received: 05/07/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	129		30-150	B
2,4,5,6-Tetrachloro-m-xylene	103		30-150	A
Decachlorobiphenyl	131		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

SAMPLE RESULTS

Lab ID: L1918914-01
 Client ID: EP11_10_050719
 Sample Location: NY, NY

Date Collected: 05/07/19 14:15
 Date Received: 05/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 05/13/19 12:16
 Analyst: KB
 Percent Solids: 95%
 Methylation Date: 05/10/19 23:55

Extraction Method: EPA 8151A
 Extraction Date: 05/10/19 17:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	174	11.0	1	A
2,4,5-T	ND		ug/kg	174	5.40	1	A
2,4,5-TP (Silvex)	ND		ug/kg	174	4.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	74		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/10/19 10:46
Analyst: AMC

Extraction Method: EPA 3546
Extraction Date: 05/09/19 11:07
Cleanup Method: EPA 3620B
Cleanup Date: 05/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1235354-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.649	0.290	A
Alpha-BHC	ND		ug/kg	0.649	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.591	A
Heptachlor	ND		ug/kg	0.779	0.349	A
Aldrin	ND		ug/kg	1.56	0.549	A
Heptachlor epoxide	ND		ug/kg	2.92	0.877	A
Endrin	ND		ug/kg	0.649	0.266	A
Endrin aldehyde	ND		ug/kg	1.95	0.682	A
Endrin ketone	ND		ug/kg	1.56	0.401	A
Dieldrin	ND		ug/kg	0.974	0.487	A
4,4'-DDE	ND		ug/kg	1.56	0.360	A
4,4'-DDD	ND		ug/kg	1.56	0.556	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.368	A
Endosulfan II	ND		ug/kg	1.56	0.521	A
Endosulfan sulfate	ND		ug/kg	0.649	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.909	A
Toxaphene	ND		ug/kg	29.2	8.18	A
cis-Chlordane	ND		ug/kg	1.95	0.543	A
trans-Chlordane	ND		ug/kg	1.95	0.514	A
Chlordane	ND		ug/kg	12.7	5.16	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 05/10/19 10:46
Analyst: AMC

Extraction Method: EPA 3546
Extraction Date: 05/09/19 11:07
Cleanup Method: EPA 3620B
Cleanup Date: 05/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1235354-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	135		30-150	B
2,4,5,6-Tetrachloro-m-xylene	118		30-150	A
Decachlorobiphenyl	124		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/13/19 14:03
Analyst: KB

Extraction Method: EPA 8151A
Extraction Date: 05/10/19 17:24

Methylation Date: 05/10/19 23:55

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1235948-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.07	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.35	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	72		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1235354-2 WG1235354-3									
Delta-BHC	78		82		30-150	5		30	A
Lindane	78		81		30-150	4		30	A
Alpha-BHC	87		85		30-150	2		30	A
Beta-BHC	78		82		30-150	5		30	A
Heptachlor	100		103		30-150	3		30	A
Aldrin	84		86		30-150	2		30	A
Heptachlor epoxide	81		85		30-150	5		30	A
Endrin	81		86		30-150	6		30	A
Endrin aldehyde	60		66		30-150	10		30	A
Endrin ketone	72		78		30-150	8		30	A
Dieldrin	86		90		30-150	5		30	A
4,4'-DDE	85		89		30-150	5		30	A
4,4'-DDD	79		86		30-150	8		30	A
4,4'-DDT	82		88		30-150	7		30	A
Endosulfan I	78		82		30-150	5		30	A
Endosulfan II	77		81		30-150	5		30	A
Endosulfan sulfate	75		71		30-150	5		30	A
Methoxychlor	69		75		30-150	8		30	A
cis-Chlordane	74		77		30-150	4		30	A
trans-Chlordane	82		83		30-150	1		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1918914

Report Date: 05/13/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1235354-2 WG1235354-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		80		30-150	B
Decachlorobiphenyl	83		104		30-150	B
2,4,5,6-Tetrachloro-m-xylene	100		102		30-150	A
Decachlorobiphenyl	100		112		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1235948-2 WG1235948-3									
2,4-D	81		97		30-150	18		30	A
2,4,5-T	79		85		30-150	7		30	A
2,4,5-TP (Silvex)	80		85		30-150	6		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	78		85		30-150	A
DCAA	74		80		30-150	B

METALS

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

SAMPLE RESULTS

Lab ID: L1918914-01
 Client ID: EP11_10_050719
 Sample Location: NY, NY

Date Collected: 05/07/19 14:15
 Date Received: 05/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1280		mg/kg	8.23	2.22	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.11	0.313	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Arsenic, Total	0.395	J	mg/kg	0.823	0.171	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Barium, Total	11.9		mg/kg	0.823	0.143	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Beryllium, Total	0.123	J	mg/kg	0.411	0.027	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.823	0.081	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Calcium, Total	936		mg/kg	8.23	2.88	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Chromium, Total	3.91		mg/kg	0.823	0.079	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Cobalt, Total	1.62	J	mg/kg	1.64	0.137	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Copper, Total	5.57		mg/kg	0.823	0.212	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Iron, Total	3410		mg/kg	4.11	0.743	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Lead, Total	3.79	J	mg/kg	4.11	0.220	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Magnesium, Total	711		mg/kg	8.23	1.27	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Manganese, Total	68.7		mg/kg	0.823	0.131	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.066	0.014	1	05/08/19 08:30	05/08/19 11:45	EPA 7471B	1,7471B	GD
Nickel, Total	3.10		mg/kg	2.06	0.199	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Potassium, Total	246		mg/kg	206	11.8	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.64	0.212	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.823	0.233	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Sodium, Total	42.9	J	mg/kg	164	2.59	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.64	0.259	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Vanadium, Total	5.07		mg/kg	0.823	0.167	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
Zinc, Total	11.1		mg/kg	4.11	0.241	2	05/08/19 17:32	05/09/19 23:16	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.6	J	mg/kg	0.84	0.84	1		05/09/19 23:16	NA	107,-	



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

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): 01 Batch: WG1234738-1									
Mercury, Total	ND	mg/kg	0.083	0.018	1	05/08/19 08:30	05/08/19 11:33	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1235017-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Antimony, Total	ND	mg/kg	2.00	0.152	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Barium, Total	ND	mg/kg	0.400	0.070	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Calcium, Total	ND	mg/kg	4.00	1.40	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Chromium, Total	ND	mg/kg	0.400	0.038	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Copper, Total	ND	mg/kg	0.400	0.103	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Iron, Total	0.704	J	mg/kg	2.00	0.361	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Manganese, Total	ND	mg/kg	0.400	0.064	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Nickel, Total	ND	mg/kg	1.00	0.097	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Potassium, Total	ND	mg/kg	100	5.76	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Selenium, Total	ND	mg/kg	0.800	0.103	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Silver, Total	ND	mg/kg	0.400	0.113	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Sodium, Total	1.60	J	mg/kg	80.0	1.26	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC
Thallium, Total	ND	mg/kg	0.800	0.126	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	
Zinc, Total	ND	mg/kg	2.00	0.117	1	05/08/19 17:32	05/09/19 20:23	1,6010D	LC	

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1918914

Report Date: 05/13/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1234738-2 SRM Lot Number: D101-540								
Mercury, Total	115		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1918914

Report Date: 05/13/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1235017-2 SRM Lot Number: D101-540					
Aluminum, Total	69	-	50-151	-	
Antimony, Total	144	-	3-196	-	
Arsenic, Total	96	-	83-117	-	
Barium, Total	89	-	83-118	-	
Beryllium, Total	90	-	83-117	-	
Cadmium, Total	91	-	83-117	-	
Calcium, Total	87	-	81-119	-	
Chromium, Total	90	-	81-118	-	
Cobalt, Total	94	-	84-116	-	
Copper, Total	88	-	83-116	-	
Iron, Total	91	-	62-138	-	
Lead, Total	93	-	83-117	-	
Magnesium, Total	83	-	76-124	-	
Manganese, Total	86	-	82-118	-	
Nickel, Total	93	-	82-117	-	
Potassium, Total	82	-	71-130	-	
Selenium, Total	96	-	79-121	-	
Silver, Total	89	-	80-120	-	
Sodium, Total	90	-	72-127	-	
Thallium, Total	94	-	81-119	-	
Vanadium, Total	90	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1235017-2 SRM Lot Number: D101-540					
Zinc, Total	94	-	81-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1234738-3 QC Sample: L1918953-01 Client ID: MS Sample												
Mercury, Total	ND	0.142	0.139	98		-	-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1235017-3 QC Sample: L1918348-01 Client ID: MS Sample									
Aluminum, Total	2550	177	3370	464	Q	-	75-125	-	20
Antimony, Total	0.426J	44.2	41.6	94		-	75-125	-	20
Arsenic, Total	0.966	10.6	11.5	99		-	75-125	-	20
Barium, Total	6.72	177	189	103		-	75-125	-	20
Beryllium, Total	0.104J	4.42	4.44	100		-	75-125	-	20
Cadmium, Total	1.43	4.51	4.91	77		-	75-125	-	20
Calcium, Total	242	884	1190	107		-	75-125	-	20
Chromium, Total	4.52	17.7	22.6	102		-	75-125	-	20
Cobalt, Total	2.34	44.2	45.2	97		-	75-125	-	20
Copper, Total	4.75	22.1	27.2	102		-	75-125	-	20
Iron, Total	5990	88.4	7200	1370	Q	-	75-125	-	20
Lead, Total	8.07	45.1	51.9	97		-	75-125	-	20
Magnesium, Total	704	884	1700	113		-	75-125	-	20
Manganese, Total	93.0	44.2	152	134	Q	-	75-125	-	20
Nickel, Total	3.48	44.2	46.4	97		-	75-125	-	20
Potassium, Total	154J	884	1060	120		-	75-125	-	20
Selenium, Total	ND	10.6	10.4	98		-	75-125	-	20
Silver, Total	ND	26.5	25.5	96		-	75-125	-	20
Sodium, Total	76.7J	884	966	109		-	75-125	-	20
Thallium, Total	ND	10.6	9.62	91		-	75-125	-	20
Vanadium, Total	7.96	44.2	53.8	104		-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1235017-3 QC Sample: L1918348-01 Client ID: MS Sample									
Zinc, Total	11.2	44.2	57.9	106	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1918914

Report Date: 05/13/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1234738-4 QC Sample: L1918953-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1918914

Report Date: 05/13/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1235017-4 QC Sample: L1918348-01 Client ID: DUP Sample					
Aluminum, Total	2550	2750	mg/kg	8	20
Antimony, Total	0.426J	0.452J	mg/kg	NC	20
Arsenic, Total	0.966	0.799J	mg/kg	NC	20
Barium, Total	6.72	7.49	mg/kg	11	20
Beryllium, Total	0.104J	0.113J	mg/kg	NC	20
Cadmium, Total	1.43	0.573J	mg/kg	NC	20
Calcium, Total	242	265	mg/kg	9	20
Chromium, Total	4.52	5.01	mg/kg	10	20
Cobalt, Total	2.34	2.25	mg/kg	4	20
Copper, Total	4.75	4.93	mg/kg	4	20
Iron, Total	5990	6320	mg/kg	5	20
Lead, Total	8.07	8.16	mg/kg	1	20
Magnesium, Total	704	796	mg/kg	12	20
Manganese, Total	93.0	106	mg/kg	13	20
Nickel, Total	3.48	3.63	mg/kg	4	20
Potassium, Total	154J	152J	mg/kg	NC	20
Selenium, Total	ND	ND	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	76.7J	45.8J	mg/kg	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1918914

Report Date: 05/13/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1235017-4 QC Sample: L1918348-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	7.96	8.21	mg/kg	3	20
Zinc, Total	11.2	11.2	mg/kg	0	20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

SAMPLE RESULTS

Lab ID: L1918914-01
Client ID: EP11_10_050719
Sample Location: NY, NY

Date Collected: 05/07/19 14:15
Date Received: 05/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.3		%	0.100	NA	1	-	05/08/19 01:29	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.21	1	05/08/19 10:40	05/09/19 15:06	1,9010C/9012B	ML
Chromium, Hexavalent	0.283	J	mg/kg	0.839	0.168	1	05/08/19 17:40	05/09/19 23:00	1,7196A	KF



Project Name: 300 WEST 122ND ST.

Lab Number: L1918914

Project Number: 170500202

Report Date: 05/13/19

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): 01 Batch: WG1234818-1									
Cyanide, Total	ND	mg/kg	0.98	0.21	1	05/08/19 10:40	05/09/19 14:56	1,9010C/9012B	ML
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1235092-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	05/08/19 17:40	05/09/19 23:00	1,7196A	KF

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1234818-2 WG1234818-3								
Cyanide, Total	42	Q	44	Q	80-120	16		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1235092-2								
Chromium, Hexavalent	109		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1234818-4 WG1234818-5 QC Sample: L1918939-01 Client ID: MS Sample												
Cyanide, Total	ND	10	9.8	93		9.6	92		75-125	2		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1235092-4 QC Sample: L1918914-01 Client ID: EP11_10_050719												
Chromium, Hexavalent	0.283J	824	842	102		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1918914

Report Date: 05/13/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1234671-1 QC Sample: L1918874-01 Client ID: DUP Sample						
Solids, Total	92.9	92.8	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1235092-6 QC Sample: L1918914-01 Client ID: EP11_10_050719						
Chromium, Hexavalent	0.283J	0.462J	mg/kg	NC		20

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Serial_No:05131916:39
Lab Number: L1918914
Report Date: 05/13/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1918914-01A	Vial MeOH preserved	A	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1918914-01B	Vial water preserved	A	NA		2.1	Y	Absent	07-MAY-19 22:01	NYTCL-8260HLW(14)
L1918914-01C	Vial water preserved	A	NA		2.1	Y	Absent	07-MAY-19 22:01	NYTCL-8260HLW(14)
L1918914-01D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1918914-01E	Glass 60mL/2oz unpreserved	A	NA		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)
L1918914-01F	Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1918914-01G	Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1918914-01H	Glass 500ml/16oz unpreserved	A	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

- 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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918914
Report Date: 05/13/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

	NEW YORK 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>5/7/19</u>	ALPHA Job # <u>1918914</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>500 West 172nd St.</u> Project Location: <u>NY, NY</u> Project # <u>170500202</u> (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #	
Client Information Client: <u>LANGAN, DPC</u> Address: Phone: Fax: Email: <u>G.WYKAA@LANGAN.COM</u>		Project Manager: <u>Greg Wyka</u> ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other <u>TCL</u> <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:			
These samples have been previously analyzed by Alpha <input type="checkbox"/>				ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
Other project specific requirements/comments:				ANALYSIS columns: <u>Part 375/TCL VOCs</u> , <u>SVOLs</u> , <u>ALBS</u> , <u>pest/herb</u> , <u>TAL Metals + herb tri</u> , <u>Chlorine + tot. cyanide</u>		Total Bottles			
Please specify Metals or TAL.									
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments			
<u>1918914-01</u>	<u>EP11-11-050719</u>	<u>5/7/19</u>	<u>1415</u>	<u>SOIL</u>	<u>AS</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		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.)			
				Container Type Preservative					
		Relinquished By: <u>Ashley Stappbeck</u> <u>Paul Mayella</u>		Date/Time <u>5/7/19 1445</u> <u>5/7/19 1615</u> <u>5/7/19 2100</u>		Received By: <u>Paul Mayella</u> <u>Paul Mayella</u> <u>Alan Mc</u>		Date/Time <u>5-7-19 1445</u> <u>5/7/19 1615</u> <u>5/7/19 2100</u>	



ANALYTICAL REPORT

Lab Number:	L1936709
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND STREET
Project Number:	170500202
Report Date:	08/26/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1936709-01	EP13_10.5_081419	SOIL	MANHATTAN, NY	08/14/19 12:00	08/14/19
L1936709-02	EP16_9.5_081419	SOIL	MANHATTAN, NY	08/14/19 14:45	08/14/19
L1936709-03	DUP01_081419	SOIL	MANHATTAN, NY	08/14/19 00:00	08/14/19
L1936709-04	DUP02_081419	SOIL	MANHATTAN, NY	08/14/19 00:00	08/14/19
L1936709-05	EP_FB02_081419	WATER	MANHATTAN, NY	08/14/19 14:50	08/14/19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Case Narrative (continued)

Report Submission

August 26, 2019: This final report includes the results of all requested analyses.

August 21, 2019: This preliminary report includes the updated sample ID for L1936709-01.

August 15, 2019: This is a preliminary report.

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

Semivolatile Organics

The WG1274740-4/-5 MS/MSD recoveries, performed on L1936709-03, are below the acceptance criteria for 2,4-dinitrophenol (0%/0%) and benzoic acid (0%/0%) due to the concentration of this compound falling below the reported detection limit.

The WG1274740-6/-7 MS/MSD recoveries, performed on L1936709-04, are below the acceptance criteria for 2,4-dinitrophenol (0%/0%) and benzoic acid (0%/0%) due to the concentration of this compound falling below the reported detection limit.

The WG1274740-7 MSD recoveries, performed on L1936709-04, are outside the acceptance criteria for 4,6-dinitro-o-cresol (9%), pentachlorophenol (7%) and 2,3,4,6-tetrachlorophenol (18%).

Total Metals

L1936709-01 through -04: 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.

L1936709-05: The Field Blank has a result for barium present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

The WG1274688-3/-4 MS/MSD recoveries for aluminum (56%/155%), calcium (920%/398%), iron (0%/718%), and manganese (128%/181%), performed on L1936709-03, do not apply because the sample concentrations are greater than four times the spike amounts added.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Case Narrative (continued)

The WG1274688-3 MS recovery, performed on L1936709-03, is outside the acceptance criteria for magnesium (223%). A post digestion spike was performed and was within acceptance criteria.

The WG1274688-3/-4 MS/MSD RPDs for calcium (47%) and magnesium (25%), performed on L1936709-03, are above the acceptance criteria.

The WG1274688-7 MS recoveries, performed on L1936709-04, are outside the acceptance criteria for potassium (129%) and zinc (158%). A post digestion spike was performed and yielded unacceptable recoveries for potassium (77%) and zinc (127%). The serial dilution recovery was not applicable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.

The WG1274688-7/-8 MS/MSD recoveries, performed on L1936709-04, is outside the acceptance criteria for magnesium (67%/134%). A post digestion spike was performed and was within acceptance criteria.

The WG1274688-7/-8 MS/MSD recoveries for aluminum (256%/202%), calcium (180%/358%), iron (1200%/2270%), and manganese (MS at 45%), performed on L1936709-04, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1274688-7/-8 MS/MSD RPD for zinc (35%), performed on L1936709-04, is above the acceptance criteria.

The WG1274822-4 MSD recovery, performed on L1936709-03, is outside the acceptance criteria for mercury (123%). A post digestion spike was performed and was within acceptance criteria.

Cyanide, Total

The WG1272629-2/-3 LCS/LCSD recoveries (78%/41%), associated with L1936709-01 and -02, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. In addition, the LCS/LCSD RPD (67%) is above the acceptance criteria.

The WG1272727-2/-3 LCS/LCSD recoveries (68%/70%), associated with L1936709-03, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1273149-3 LCSD recovery (75%), associated with L1936709-04, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:

 Lisa Westerlind

Title: Technical Director/Representative

Date: 08/26/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-01
 Client ID: EP13_10.5_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 12:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/15/19 08:19
 Analyst: MV
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	0.24	J	ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	0.95		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-01
Client ID: EP13_10.5_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 12:00
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	46		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.66	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-01
Client ID: EP13_10.5_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 12:00
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	81	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	96		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-02
 Client ID: EP16_9.5_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:45
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/15/19 08:59
 Analyst: MV
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-02
Client ID: EP16_9.5_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:45
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	34		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	0.83	J	ug/kg	1.0	0.17	1
sec-Butylbenzene	0.54	J	ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	0.18	J	ug/kg	1.0	0.11	1
p-Isopropyltoluene	0.85	J	ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-02
Client ID: EP16_9.5_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:45
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	0.46	J	ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	0.45	J	ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	1.1	J	ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	1.7	J	ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	4.4		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	96		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-03
 Client ID: DUP01_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/20/19 03:18
 Analyst: NLK
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.18	J	ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	1.5		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 300 WEST 122ND STREET**Lab Number:** L1936709**Project Number:** 170500202**Report Date:** 08/26/19**SAMPLE RESULTS**

Lab ID: L1936709-03
 Client ID: DUP01_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.22	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	60		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.13	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-03
Client ID: DUP01_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	99		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-04
 Client ID: DUP02_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/20/19 15:34
 Analyst: JC
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	ND		ug/kg	0.56	0.18	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: 300 WEST 122ND STREET**Lab Number:** L1936709**Project Number:** 170500202**Report Date:** 08/26/19**SAMPLE RESULTS**

Lab ID: L1936709-04
 Client ID: DUP02_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	28		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	0.41	J	ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.27	J	ug/kg	1.1	0.12	1
Naphthalene	3.7	J	ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-04
Client ID: DUP02_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	0.30	J	ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	0.75	J	ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	89	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	0.47	J	ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	2.0	J	ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	102		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-05
 Client ID: EP_FB02_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:50
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 08/20/19 21:45
 Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-05
Client ID: EP_FB02_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:50
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.4	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-05
Client ID: EP_FB02_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:50
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	99		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/15/19 07:40
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1272749-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/15/19 07:40
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1272749-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/15/19 07:40
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1272749-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	97		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/19/19 19:57
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1274413-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.68	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/19/19 19:57
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1274413-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/19/19 19:57
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1274413-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	93		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/20/19 09:24
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1274719-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/20/19 09:24
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1274719-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/20/19 09:24
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1274719-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	98		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/20/19 20:54
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1275024-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/20/19 20:54
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1275024-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/20/19 20:54
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1275024-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1272749-3 WG1272749-4								
Methylene chloride	93		94		70-130	1		30
1,1-Dichloroethane	95		96		70-130	1		30
Chloroform	97		96		70-130	1		30
Carbon tetrachloride	83		84		70-130	1		30
1,2-Dichloropropane	98		98		70-130	0		30
Dibromochloromethane	88		88		70-130	0		30
1,1,2-Trichloroethane	98		97		70-130	1		30
Tetrachloroethene	87		87		70-130	0		30
Chlorobenzene	96		96		70-130	0		30
Trichlorofluoromethane	81		84		70-139	4		30
1,2-Dichloroethane	92		90		70-130	2		30
1,1,1-Trichloroethane	90		90		70-130	0		30
Bromodichloromethane	93		94		70-130	1		30
trans-1,3-Dichloropropene	92		91		70-130	1		30
cis-1,3-Dichloropropene	94		94		70-130	0		30
1,1-Dichloropropene	96		95		70-130	1		30
Bromoform	83		82		70-130	1		30
1,1,2,2-Tetrachloroethane	98		96		70-130	2		30
Benzene	96		96		70-130	0		30
Toluene	93		94		70-130	1		30
Ethylbenzene	99		98		70-130	1		30
Chloromethane	79		78		52-130	1		30
Bromomethane	112		106		57-147	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1272749-3 WG1272749-4								
Vinyl chloride	79		79		67-130	0		30
Chloroethane	92		92		50-151	0		30
1,1-Dichloroethene	88		88		65-135	0		30
trans-1,2-Dichloroethene	93		92		70-130	1		30
Trichloroethene	93		93		70-130	0		30
1,2-Dichlorobenzene	94		93		70-130	1		30
1,3-Dichlorobenzene	96		94		70-130	2		30
1,4-Dichlorobenzene	96		94		70-130	2		30
Methyl tert butyl ether	93		93		66-130	0		30
p/m-Xylene	96		96		70-130	0		30
o-Xylene	97		97		70-130	0		30
cis-1,2-Dichloroethene	93		94		70-130	1		30
Dibromomethane	91		90		70-130	1		30
Styrene	99		98		70-130	1		30
Dichlorodifluoromethane	55		55		30-146	0		30
Acetone	59		57		54-140	3		30
Carbon disulfide	78		79		59-130	1		30
2-Butanone	88		85		70-130	3		30
Vinyl acetate	128		126		70-130	2		30
4-Methyl-2-pentanone	91		90		70-130	1		30
1,2,3-Trichloropropane	99		95		68-130	4		30
2-Hexanone	90		88		70-130	2		30
Bromochloromethane	90		90		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1272749-3 WG1272749-4								
2,2-Dichloropropane	86		86		70-130	0		30
1,2-Dibromoethane	90		90		70-130	0		30
1,3-Dichloropropane	99		97		69-130	2		30
1,1,1,2-Tetrachloroethane	93		93		70-130	0		30
Bromobenzene	94		94		70-130	0		30
n-Butylbenzene	103		102		70-130	1		30
sec-Butylbenzene	101		100		70-130	1		30
tert-Butylbenzene	98		97		70-130	1		30
o-Chlorotoluene	104		103		70-130	1		30
p-Chlorotoluene	104		104		70-130	0		30
1,2-Dibromo-3-chloropropane	80		77		68-130	4		30
Hexachlorobutadiene	89		89		67-130	0		30
Isopropylbenzene	101		100		70-130	1		30
p-Isopropyltoluene	97		96		70-130	1		30
Naphthalene	95		92		70-130	3		30
Acrylonitrile	89		87		70-130	2		30
n-Propylbenzene	105		104		70-130	1		30
1,2,3-Trichlorobenzene	94		93		70-130	1		30
1,2,4-Trichlorobenzene	96		94		70-130	2		30
1,3,5-Trimethylbenzene	101		100		70-130	1		30
1,2,4-Trimethylbenzene	99		99		70-130	0		30
1,4-Dioxane	98		90		65-136	9		30
p-Diethylbenzene	104		103		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1272749-3 WG1272749-4								
p-Ethyltoluene	108		107		70-130	1		30
1,2,4,5-Tetramethylbenzene	107		105		70-130	2		30
Ethyl ether	95		96		67-130	1		30
trans-1,4-Dichloro-2-butene	91		89		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		97		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	108		107		70-130
Dibromofluoromethane	96		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1274413-3 WG1274413-4								
Methylene chloride	78		83		70-130	6		30
1,1-Dichloroethane	89		97		70-130	9		30
Chloroform	86		94		70-130	9		30
Carbon tetrachloride	85		89		70-130	5		30
1,2-Dichloropropane	104		106		70-130	2		30
Dibromochloromethane	93		96		70-130	3		30
1,1,2-Trichloroethane	93		95		70-130	2		30
Tetrachloroethene	91		92		70-130	1		30
Chlorobenzene	97		100		70-130	3		30
Trichlorofluoromethane	59	Q	61	Q	70-139	3		30
1,2-Dichloroethane	88		95		70-130	8		30
1,1,1-Trichloroethane	87		94		70-130	8		30
Bromodichloromethane	91		95		70-130	4		30
trans-1,3-Dichloropropene	98		100		70-130	2		30
cis-1,3-Dichloropropene	94		98		70-130	4		30
1,1-Dichloropropene	87		96		70-130	10		30
Bromoform	83		88		70-130	6		30
1,1,2,2-Tetrachloroethane	98		104		70-130	6		30
Benzene	88		96		70-130	9		30
Toluene	98		99		70-130	1		30
Ethylbenzene	99		101		70-130	2		30
Chloromethane	112		110		52-130	2		30
Bromomethane	65		63		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1274413-3 WG1274413-4								
Vinyl chloride	72		74		67-130	3		30
Chloroethane	54		54		50-151	0		30
1,1-Dichloroethene	83		87		65-135	5		30
trans-1,2-Dichloroethene	86		89		70-130	3		30
Trichloroethene	93		94		70-130	1		30
1,2-Dichlorobenzene	96		99		70-130	3		30
1,3-Dichlorobenzene	100		100		70-130	0		30
1,4-Dichlorobenzene	98		100		70-130	2		30
Methyl tert butyl ether	75		82		66-130	9		30
p/m-Xylene	100		102		70-130	2		30
o-Xylene	97		99		70-130	2		30
cis-1,2-Dichloroethene	85		93		70-130	9		30
Dibromomethane	85		87		70-130	2		30
Styrene	98		99		70-130	1		30
Dichlorodifluoromethane	58		56		30-146	4		30
Acetone	111		128		54-140	14		30
Carbon disulfide	76		82		59-130	8		30
2-Butanone	115		140	Q	70-130	20		30
Vinyl acetate	106		123		70-130	15		30
4-Methyl-2-pentanone	114		122		70-130	7		30
1,2,3-Trichloropropane	95		101		68-130	6		30
2-Hexanone	131	Q	139	Q	70-130	6		30
Bromochloromethane	90		91		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1274413-3 WG1274413-4								
2,2-Dichloropropane	83		93		70-130	11		30
1,2-Dibromoethane	93		97		70-130	4		30
1,3-Dichloropropane	94		96		69-130	2		30
1,1,1,2-Tetrachloroethane	96		98		70-130	2		30
Bromobenzene	92		96		70-130	4		30
n-Butylbenzene	101		109		70-130	8		30
sec-Butylbenzene	104		106		70-130	2		30
tert-Butylbenzene	101		104		70-130	3		30
o-Chlorotoluene	103		107		70-130	4		30
p-Chlorotoluene	103		106		70-130	3		30
1,2-Dibromo-3-chloropropane	89		96		68-130	8		30
Hexachlorobutadiene	82		86		67-130	5		30
Isopropylbenzene	104		107		70-130	3		30
p-Isopropyltoluene	104		107		70-130	3		30
Naphthalene	98		102		70-130	4		30
Acrylonitrile	110		126		70-130	14		30
n-Propylbenzene	106		108		70-130	2		30
1,2,3-Trichlorobenzene	92		93		70-130	1		30
1,2,4-Trichlorobenzene	94		95		70-130	1		30
1,3,5-Trimethylbenzene	104		107		70-130	3		30
1,2,4-Trimethylbenzene	106		109		70-130	3		30
1,4-Dioxane	106		118		65-136	11		30
p-Diethylbenzene	109		112		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1274413-3 WG1274413-4								
p-Ethyltoluene	113		117		70-130	3		30
1,2,4,5-Tetramethylbenzene	106		108		70-130	2		30
Ethyl ether	74		79		67-130	7		30
trans-1,4-Dichloro-2-butene	124		130		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		101		70-130
Toluene-d8	107		107		70-130
4-Bromofluorobenzene	107		107		70-130
Dibromofluoromethane	94		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1274719-3 WG1274719-4								
Methylene chloride	92		92		70-130	0		30
1,1-Dichloroethane	101		99		70-130	2		30
Chloroform	94		94		70-130	0		30
Carbon tetrachloride	91		90		70-130	1		30
1,2-Dichloropropane	99		99		70-130	0		30
Dibromochloromethane	86		87		70-130	1		30
1,1,2-Trichloroethane	93		96		70-130	3		30
Tetrachloroethene	88		86		70-130	2		30
Chlorobenzene	87		86		70-130	1		30
Trichlorofluoromethane	97		96		70-139	1		30
1,2-Dichloroethane	96		98		70-130	2		30
1,1,1-Trichloroethane	91		89		70-130	2		30
Bromodichloromethane	87		88		70-130	1		30
trans-1,3-Dichloropropene	89		90		70-130	1		30
cis-1,3-Dichloropropene	88		89		70-130	1		30
1,1-Dichloropropene	95		93		70-130	2		30
Bromoform	85		88		70-130	3		30
1,1,2,2-Tetrachloroethane	86		93		70-130	8		30
Benzene	91		89		70-130	2		30
Toluene	92		89		70-130	3		30
Ethylbenzene	90		88		70-130	2		30
Chloromethane	116		113		52-130	3		30
Bromomethane	75		74		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1274719-3 WG1274719-4								
Vinyl chloride	94		96		67-130	2		30
Chloroethane	84		86		50-151	2		30
1,1-Dichloroethene	90		86		65-135	5		30
trans-1,2-Dichloroethene	92		90		70-130	2		30
Trichloroethene	89		88		70-130	1		30
1,2-Dichlorobenzene	86		87		70-130	1		30
1,3-Dichlorobenzene	87		86		70-130	1		30
1,4-Dichlorobenzene	88		86		70-130	2		30
Methyl tert butyl ether	88		89		66-130	1		30
p/m-Xylene	89		87		70-130	2		30
o-Xylene	88		87		70-130	1		30
cis-1,2-Dichloroethene	93		90		70-130	3		30
Dibromomethane	92		93		70-130	1		30
Styrene	87		86		70-130	1		30
Dichlorodifluoromethane	100		100		30-146	0		30
Acetone	105		113		54-140	7		30
Carbon disulfide	88		86		59-130	2		30
2-Butanone	103		114		70-130	10		30
Vinyl acetate	98		102		70-130	4		30
4-Methyl-2-pentanone	92		98		70-130	6		30
1,2,3-Trichloropropane	92		96		68-130	4		30
2-Hexanone	82		90		70-130	9		30
Bromochloromethane	91		91		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1274719-3 WG1274719-4								
2,2-Dichloropropane	90		88		70-130	2		30
1,2-Dibromoethane	86		89		70-130	3		30
1,3-Dichloropropane	92		95		69-130	3		30
1,1,1,2-Tetrachloroethane	84		84		70-130	0		30
Bromobenzene	86		85		70-130	1		30
n-Butylbenzene	90		88		70-130	2		30
sec-Butylbenzene	86		85		70-130	1		30
tert-Butylbenzene	84		82		70-130	2		30
o-Chlorotoluene	90		88		70-130	2		30
p-Chlorotoluene	88		89		70-130	1		30
1,2-Dibromo-3-chloropropane	80		87		68-130	8		30
Hexachlorobutadiene	79		77		67-130	3		30
Isopropylbenzene	87		84		70-130	4		30
p-Isopropyltoluene	84		82		70-130	2		30
Naphthalene	77		83		70-130	8		30
Acrylonitrile	102		112		70-130	9		30
n-Propylbenzene	91		88		70-130	3		30
1,2,3-Trichlorobenzene	82		83		70-130	1		30
1,2,4-Trichlorobenzene	84		83		70-130	1		30
1,3,5-Trimethylbenzene	86		85		70-130	1		30
1,2,4-Trimethylbenzene	86		85		70-130	1		30
1,4-Dioxane	84		94		65-136	11		30
p-Diethylbenzene	84		82		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1274719-3 WG1274719-4								
p-Ethyltoluene	87		85		70-130	2		30
1,2,4,5-Tetramethylbenzene	82		81		70-130	1		30
Ethyl ether	74		76		67-130	3		30
trans-1,4-Dichloro-2-butene	93		98		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		106		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	98		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1275024-3 WG1275024-4								
Methylene chloride	98		98		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	84		83		63-132	1		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	81		84		63-130	4		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	91		92		70-130	1		20
Chlorobenzene	97		98		75-130	1		20
Trichlorofluoromethane	130		130		62-150	0		20
1,2-Dichloroethane	120		120		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	95		96		67-130	1		20
trans-1,3-Dichloropropene	78		81		70-130	4		20
cis-1,3-Dichloropropene	86		86		70-130	0		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	63		66		54-136	5		20
1,1,1,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	120		120		64-130	0		20
Bromomethane	30	Q	26	Q	39-139	14		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1275024-3 WG1275024-4								
Vinyl chloride	120		110		55-140	9		20
Chloroethane	160	Q	150	Q	55-138	6		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	97		96		70-130	1		20
1,2-Dichlorobenzene	90		93		70-130	3		20
1,3-Dichlorobenzene	91		93		70-130	2		20
1,4-Dichlorobenzene	93		93		70-130	0		20
Methyl tert butyl ether	79		86		63-130	8		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	97		98		70-130	1		20
1,2,3-Trichloropropane	110		120		64-130	9		20
Acrylonitrile	100		110		70-130	10		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	98		98		36-147	0		20
Acetone	120		130		58-148	8		20
Carbon disulfide	120		120		51-130	0		20
2-Butanone	110		120		63-138	9		20
Vinyl acetate	120		120		70-130	0		20
4-Methyl-2-pentanone	93		100		59-130	7		20
2-Hexanone	99		110		57-130	11		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1275024-3 WG1275024-4								
Bromochloromethane	92		92		70-130	0		20
2,2-Dichloropropane	84		84		63-133	0		20
1,2-Dibromoethane	90		94		70-130	4		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	83		85		64-130	2		20
Bromobenzene	91		91		70-130	0		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	98		99		70-130	1		20
o-Chlorotoluene	100		96		70-130	4		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	63		70		41-144	11		20
Hexachlorobutadiene	82		84		63-130	2		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	98		100		70-130	2		20
Naphthalene	84		92		70-130	9		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	82		88		70-130	7		20
1,2,4-Trichlorobenzene	81		85		70-130	5		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
1,4-Dioxane	80		92		56-162	14		20
p-Diethylbenzene	90		91		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1275024-3 WG1275024-4								
p-Ethyltoluene	99		100		70-130	1		20
1,2,4,5-Tetramethylbenzene	89		90		70-130	1		20
Ethyl ether	110		110		59-134	0		20
trans-1,4-Dichloro-2-butene	48	Q	51	Q	70-130	6		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	123		124		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	111		111		70-130
Dibromofluoromethane	102		102		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

<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>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1274413-6 WG1274413-7 QC Sample: L1936709-03 Client ID: DUP01_081419												
Methylene chloride	ND	92.1	81	87		100	87		70-130	25		30
1,1-Dichloroethane	ND	92.1	110	117		130	108		70-130	17		30
Chloroform	0.18J	92.1	100	110		120	99		70-130	16		30
Carbon tetrachloride	ND	92.1	110	118		130	109		70-130	18		30
1,2-Dichloropropane	ND	92.1	110	124		150	123		70-130	25		30
Dibromochloromethane	ND	92.1	100	110		130	108		70-130	24		30
1,1,2-Trichloroethane	ND	92.1	95	104		120	102		70-130	24		30
Tetrachloroethene	1.5	92.1	97	104		110	90		70-130	11		30
Chlorobenzene	ND	92.1	94	102		110	92		70-130	15		30
Trichlorofluoromethane	ND	92.1	78	85		96	80		70-139	21		30
1,2-Dichloroethane	ND	92.1	100	108		130	108		70-130	25		30
1,1,1-Trichloroethane	ND	92.1	110	119		130	111		70-130	18		30
Bromodichloromethane	ND	92.1	100	111		130	110		70-130	25		30
trans-1,3-Dichloropropene	ND	92.1	91	99		120	98		70-130	24		30
cis-1,3-Dichloropropene	ND	92.1	95	103		120	101		70-130	23		30
1,1-Dichloropropene	ND	92.1	110	117		130	108		70-130	18		30
Bromoform	ND	92.1	94	102		120	99		70-130	23		30
1,1,2,2-Tetrachloroethane	ND	92.1	51	55	Q	110	88		70-130	69	Q	30
Benzene	ND	92.1	100	112		130	108		70-130	22		30
Toluene	ND	92.1	100	111		120	102		70-130	17		30
Ethylbenzene	ND	92.1	98	107		110	91		70-130	9		30
Chloromethane	ND	92.1	140	147	Q	170	142	Q	52-130	22		30
Bromomethane	ND	92.1	62	67		82	69		57-147	28		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

<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>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1274413-6 WG1274413-7 QC Sample: L1936709-03 Client ID: DUP01_081419												
Vinyl chloride	ND	92.1	92	99		120	98		67-130	24		30
Chloroethane	ND	92.1	59	64		75	63		50-151	24		30
1,1-Dichloroethene	ND	92.1	100	112		130	106		65-135	20		30
trans-1,2-Dichloroethene	ND	92.1	96	104		120	98		70-130	20		30
Trichloroethene	ND	92.1	140	151	Q	140	118		70-130	1		30
1,2-Dichlorobenzene	ND	92.1	83	90		94	79		70-130	12		30
1,3-Dichlorobenzene	ND	92.1	83	90		88	74		70-130	6		30
1,4-Dichlorobenzene	ND	92.1	78	85		84	70		70-130	7		30
Methyl tert butyl ether	ND	92.1	85	92		110	91		66-130	24		30
p/m-Xylene	ND	184	200	106		210	90		70-130	9		30
o-Xylene	ND	184	190	105		220	92		70-130	13		30
cis-1,2-Dichloroethene	ND	92.1	97	105		120	98		70-130	18		30
Dibromomethane	ND	92.1	89	96		110	96		70-130	25		30
Styrene	ND	184	190	100		210	90		70-130	14		30
Dichlorodifluoromethane	ND	92.1	76	82		92	77		30-146	19		30
Acetone	60	92.1	170	115		190	108		54-140	12		30
Carbon disulfide	ND	92.1	88	96		100	87		59-130	17		30
2-Butanone	ND	92.1	140	150	Q	160	138	Q	70-130	17		30
Vinyl acetate	ND	92.1	16	17	Q	17	15	Q	70-130	12		30
4-Methyl-2-pentanone	ND	92.1	120	132	Q	150	128		70-130	22		30
1,2,3-Trichloropropane	ND	92.1	98	106		120	103		68-130	23		30
2-Hexanone	ND	92.1	140	152	Q	180	148	Q	70-130	23		30
Bromochloromethane	ND	92.1	93	101		120	102		70-130	26		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

<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>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1274413-6 WG1274413-7 QC Sample: L1936709-03 Client ID: DUP01_081419												
2,2-Dichloropropane	ND	92.1	110	116		120	101		70-130	11		30
1,2-Dibromoethane	ND	92.1	91	99		120	98		70-130	25		30
1,3-Dichloropropane	ND	92.1	95	103		120	102		69-130	25		30
1,1,1,2-Tetrachloroethane	ND	92.1	100	113		130	108		70-130	21		30
Bromobenzene	ND	92.1	88	95		100	86		70-130	15		30
n-Butylbenzene	ND	92.1	94	102		79	67	Q	70-130	17		30
sec-Butylbenzene	ND	92.1	100	113		98	83		70-130	6		30
tert-Butylbenzene	ND	92.1	110	114		110	90		70-130	2		30
o-Chlorotoluene	ND	92.1	98	106		100	87		70-130	5		30
p-Chlorotoluene	ND	92.1	91	98		95	80		70-130	5		30
1,2-Dibromo-3-chloropropane	ND	92.1	94	102		120	101		68-130	24		30
Hexachlorobutadiene	ND	92.1	70	76		53	45	Q	67-130	27		30
Isopropylbenzene	ND	92.1	110	115		120	97		70-130	8		30
p-Isopropyltoluene	ND	92.1	99	108		91	77		70-130	8		30
Naphthalene	ND	92.1	77	84		97	82		70-130	23		30
Acrylonitrile	ND	92.1	120	134	Q	140	117		70-130	12		30
n-Propylbenzene	ND	92.1	100	112		100	86		70-130	1		30
1,2,3-Trichlorobenzene	ND	92.1	60	65	Q	69	58	Q	70-130	13		30
1,2,4-Trichlorobenzene	ND	92.1	60	65	Q	65	55	Q	70-130	8		30
1,3,5-Trimethylbenzene	ND	92.1	100	108		100	87		70-130	3		30
1,2,4-Trimethylbenzene	ND	92.1	96	104		98	83		70-130	3		30
1,4-Dioxane	ND	4600	5400	117		6700	112		65-136	21		30
p-Diethylbenzene	ND	92.1	97	106		86	72		70-130	12		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1274413-6 WG1274413-7 QC Sample: L1936709-03 Client ID: DUP01_081419												
p-Ethyltoluene	ND	92.1	110	114		100	86		70-130	3		30
1,2,4,5-Tetramethylbenzene	ND	92.1	89	96		88	74		70-130	1		30
Ethyl ether	ND	92.1	81	88		100	86		67-130	23		30
trans-1,4-Dichloro-2-butene	ND	92.1	110	119		140	118		70-130	25		30

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	107		104		70-130
4-Bromofluorobenzene	106		108		70-130
Dibromofluoromethane	98		97		70-130
Toluene-d8	106		105		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

<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>
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1274719-6 WG1274719-7 QC Sample: L1936709-04 Client ID: DUP02_081419												
Methylene chloride	ND	128	130	102		120	102		70-130	12		30
1,1-Dichloroethane	ND	128	150	114		130	114		70-130	12		30
Chloroform	ND	128	140	109		120	108		70-130	12		30
Carbon tetrachloride	ND	128	140	111		120	108		70-130	14		30
1,2-Dichloropropane	ND	128	140	108		120	106		70-130	13		30
Dibromochloromethane	ND	128	130	98		110	97		70-130	12		30
1,1,2-Trichloroethane	ND	128	140	112		130	110		70-130	13		30
Tetrachloroethene	ND	128	110	89		95	83		70-130	19		30
Chlorobenzene	ND	128	120	90		94	82		70-130	20		30
Trichlorofluoromethane	ND	128	190	147	Q	160	142	Q	70-139	15		30
1,2-Dichloroethane	ND	128	140	112		130	112		70-130	11		30
1,1,1-Trichloroethane	ND	128	140	111		120	108		70-130	14		30
Bromodichloromethane	ND	128	130	102		110	100		70-130	14		30
trans-1,3-Dichloropropene	ND	128	120	96		110	95		70-130	13		30
cis-1,3-Dichloropropene	ND	128	130	99		110	96		70-130	14		30
1,1-Dichloropropene	ND	128	140	106		120	102		70-130	16		30
Bromoform	ND	128	120	97		110	100		70-130	8		30
1,1,2,2-Tetrachloroethane	ND	128	6.7	5	Q	30	26	Q	70-130	127	Q	30
Benzene	ND	128	130	100		110	98		70-130	13		30
Toluene	ND	128	130	98		110	93		70-130	16		30
Ethylbenzene	ND	128	120	96		99	87		70-130	22		30
Chloromethane	ND	128	160	126		140	124		52-130	13		30
Bromomethane	ND	128	160	122		140	121		57-147	12		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

<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>
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1274719-6 WG1274719-7 QC Sample: L1936709-04 Client ID: DUP02_081419												
Vinyl chloride	ND	128	190	146	Q	160	144	Q	67-130	13		30
Chloroethane	ND	128	190	147		160	143		50-151	14		30
1,1-Dichloroethene	ND	128	150	116		130	114		65-135	13		30
trans-1,2-Dichloroethene	ND	128	130	101		110	98		70-130	14		30
Trichloroethene	ND	128	230	176	Q	190	163	Q	70-130	19		30
1,2-Dichlorobenzene	ND	128	100	78		82	72		70-130	20		30
1,3-Dichlorobenzene	ND	128	98	77		78	68	Q	70-130	23		30
1,4-Dichlorobenzene	ND	128	95	74		75	65	Q	70-130	24		30
Methyl tert butyl ether	ND	128	140	108		130	110		66-130	9		30
p/m-Xylene	ND	255	240	93		190	82		70-130	24		30
o-Xylene	ND	255	240	95		190	84		70-130	23		30
cis-1,2-Dichloroethene	ND	128	130	99		110	98		70-130	12		30
Dibromomethane	ND	128	130	102		120	102		70-130	11		30
Styrene	ND	255	240	93		190	83		70-130	22		30
Dichlorodifluoromethane	ND	128	160	125		140	119		30-146	16		30
Acetone	28	128	230	160	Q	210	161	Q	54-140	9		30
Carbon disulfide	ND	128	130	105		110	100		59-130	16		30
2-Butanone	ND	128	150	120		150	131	Q	70-130	2		30
Vinyl acetate	ND	128	27	21	Q	24	21	Q	70-130	12		30
4-Methyl-2-pentanone	ND	128	140	107		130	113		70-130	6		30
1,2,3-Trichloropropane	ND	128	120	97		120	101		68-130	8		30
2-Hexanone	ND	128	130	103		120	109		70-130	6		30
Bromochloromethane	ND	128	120	97		110	99		70-130	9		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

<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>
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1274719-6 WG1274719-7 QC Sample: L1936709-04 Client ID: DUP02_081419												
2,2-Dichloropropane	ND	128	140	110		120	108		70-130	14		30
1,2-Dibromoethane	ND	128	120	94		110	95		70-130	11		30
1,3-Dichloropropane	ND	128	130	100		120	101		69-130	11		30
1,1,1,2-Tetrachloroethane	ND	128	120	94		100	89		70-130	16		30
Bromobenzene	ND	128	110	84		89	78		70-130	19		30
n-Butylbenzene	ND	128	93	73		70	62	Q	70-130	28		30
sec-Butylbenzene	0.41J	128	100	79		78	68	Q	70-130	25		30
tert-Butylbenzene	ND	128	100	81		83	72		70-130	23		30
o-Chlorotoluene	ND	128	110	87		89	78		70-130	23		30
p-Chlorotoluene	ND	128	110	83		83	72		70-130	25		30
1,2-Dibromo-3-chloropropane	ND	128	120	92		110	99		68-130	3		30
Hexachlorobutadiene	ND	128	59	46	Q	44	38	Q	67-130	29		30
Isopropylbenzene	ND	128	110	89		91	80		70-130	22		30
p-Isopropyltoluene	0.27J	128	99	77		75	66	Q	70-130	27		30
Naphthalene	3.7J	128	96	75		83	72		70-130	15		30
Acrylonitrile	ND	128	140	107		130	115		70-130	4		30
n-Propylbenzene	ND	128	110	87		86	75		70-130	26		30
1,2,3-Trichlorobenzene	ND	128	73	58	Q	62	54	Q	70-130	17		30
1,2,4-Trichlorobenzene	ND	128	73	57	Q	61	54	Q	70-130	17		30
1,3,5-Trimethylbenzene	0.30J	128	110	85		85	74		70-130	24		30
1,2,4-Trimethylbenzene	0.75J	128	110	85		86	75		70-130	24		30
1,4-Dioxane	ND	6390	7300	114		8000	139	Q	65-136	9		30
p-Diethylbenzene	ND	128	97	76		71	63	Q	70-130	30		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1274719-6 WG1274719-7 QC Sample: L1936709-04 Client ID: DUP02_081419												
p-Ethyltoluene	0.47J	128	110	85		83	73		70-130	27		30
1,2,4,5-Tetramethylbenzene	2.0J	128	96	76		73	64	Q	70-130	28		30
Ethyl ether	ND	128	160	124		140	124		67-130	11		30
trans-1,4-Dichloro-2-butene	ND	128	120	90		110	93		70-130	8		30

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	114		115		70-130
4-Bromofluorobenzene	128		126		70-130
Dibromofluoromethane	99		100		70-130
Toluene-d8	100		100		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-01
 Client ID: EP13_10.5_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 12:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/15/19 15:56
 Analyst: EK
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 08/15/19 09:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	77	J	ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-01
 Client ID: EP13_10.5_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 12:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	61	J	ug/kg	100	19.	1
Benzo(a)pyrene	61	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	78	J	ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	46	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	42	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	41	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	44	J	ug/kg	140	24.	1
Pyrene	76	J	ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	830	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-01
 Client ID: EP13_10.5_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 12:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	75		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-02
 Client ID: EP16_9.5_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:45
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/15/19 16:21
 Analyst: EK
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 08/15/19 09:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	240		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 300 WEST 122ND STREET**Lab Number:** L1936709**Project Number:** 170500202**Report Date:** 08/26/19**SAMPLE RESULTS**

Lab ID: L1936709-02
 Client ID: EP16_9.5_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:45
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	160		ug/kg	100	20.	1
Benzo(a)pyrene	180		ug/kg	140	43.	1
Benzo(b)fluoranthene	230		ug/kg	100	30.	1
Benzo(k)fluoranthene	87	J	ug/kg	100	28.	1
Chrysene	150		ug/kg	100	18.	1
Acenaphthylene	48	J	ug/kg	140	27.	1
Anthracene	38	J	ug/kg	100	34.	1
Benzo(ghi)perylene	110	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	100		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	27	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	120	J	ug/kg	140	24.	1
Pyrene	260		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	72.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-02
 Client ID: EP16_9.5_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:45
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	70		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-03
 Client ID: DUP01_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/22/19 13:01
 Analyst: RC
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 08/20/19 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	130		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-03
 Client ID: DUP01_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	71	J	ug/kg	100	19.	1
Benzo(a)pyrene	65	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	77	J	ug/kg	100	29.	1
Benzo(k)fluoranthene	33	J	ug/kg	100	27.	1
Chrysene	64	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	55	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	59	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	54	J	ug/kg	140	24.	1
Pyrene	120		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-03
 Client ID: DUP01_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	108		25-120
Phenol-d6	121	Q	10-120
Nitrobenzene-d5	128	Q	23-120
2-Fluorobiphenyl	96		30-120
2,4,6-Tribromophenol	121		10-136
4-Terphenyl-d14	104		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-04
 Client ID: DUP02_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/23/19 04:58
 Analyst: IM
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 08/20/19 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	230		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-04
 Client ID: DUP02_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	150		ug/kg	100	20.	1
Benzo(a)pyrene	130	J	ug/kg	140	43.	1
Benzo(b)fluoranthene	200		ug/kg	100	30.	1
Benzo(k)fluoranthene	58	J	ug/kg	100	28.	1
Chrysene	130		ug/kg	100	18.	1
Acenaphthylene	32	J	ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	93	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	83	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	96	J	ug/kg	140	24.	1
Pyrene	230		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	72.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-04
Client ID: DUP02_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	40		10-136
4-Terphenyl-d14	56		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-05
 Client ID: EP_FB02_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:50
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 08/21/19 08:42
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 08/20/19 09:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-05
Client ID: EP_FB02_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:50
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	69		10-120
4-Terphenyl-d14	89		41-149

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-05
 Client ID: EP_FB02_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:50
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/21/19 09:42
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 08/20/19 09:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-05
 Client ID: EP_FB02_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:50
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	100		10-120
4-Terphenyl-d14	91		41-149

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/15/19 14:40
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 08/15/19 09:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1272723-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	29.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	25.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	32.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/15/19 14:40
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 08/15/19 09:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1272723-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	41.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	39.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	21.
2,4,6-Trichlorophenol	ND		ug/kg	100	32.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 08/15/19 14:40
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 08/15/19 09:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1272723-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	78.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	37.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	77		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/21/19 01:28
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 08/20/19 06:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1274373-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/21/19 01:28
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 08/20/19 06:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1274373-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 08/21/19 01:28
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 08/20/19 06:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1274373-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	69		10-120
4-Terphenyl-d14	94		41-149

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/20/19 16:16
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 08/20/19 07:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS-SIM - Westborough Lab for sample(s): 05 Batch: WG1274374-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	0.03	J	ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/20/19 16:16
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 08/20/19 07:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 05 Batch: WG1274374-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	62		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	96		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	99		41-149

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/22/19 09:14
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/20/19 21:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1274740-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	29.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	25.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	32.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/22/19 09:14
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/20/19 21:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1274740-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	41.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	39.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	21.
2,4,6-Trichlorophenol	ND		ug/kg	100	32.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 08/22/19 09:14
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/20/19 21:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1274740-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	78.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	37.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	97		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	103		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1272723-2 WG1272723-3								
Acenaphthene	74		73		31-137	1		50
1,2,4-Trichlorobenzene	65		67		38-107	3		50
Hexachlorobenzene	77		74		40-140	4		50
Bis(2-chloroethyl)ether	70		70		40-140	0		50
2-Chloronaphthalene	72		67		40-140	7		50
1,2-Dichlorobenzene	71		68		40-140	4		50
1,3-Dichlorobenzene	66		66		40-140	0		50
1,4-Dichlorobenzene	69		68		28-104	1		50
3,3'-Dichlorobenzidine	55		55		40-140	0		50
2,4-Dinitrotoluene	88		88		40-132	0		50
2,6-Dinitrotoluene	83		80		40-140	4		50
Fluoranthene	85		82		40-140	4		50
4-Chlorophenyl phenyl ether	71		75		40-140	5		50
4-Bromophenyl phenyl ether	75		74		40-140	1		50
Bis(2-chloroisopropyl)ether	55		54		40-140	2		50
Bis(2-chloroethoxy)methane	71		70		40-117	1		50
Hexachlorobutadiene	69		66		40-140	4		50
Hexachlorocyclopentadiene	70		64		40-140	9		50
Hexachloroethane	67		68		40-140	1		50
Isophorone	76		77		40-140	1		50
Naphthalene	72		70		40-140	3		50
Nitrobenzene	73		74		40-140	1		50
NDPA/DPA	80		78		36-157	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1272723-2 WG1272723-3								
n-Nitrosodi-n-propylamine	77		76		32-121	1		50
Bis(2-ethylhexyl)phthalate	86		87		40-140	1		50
Butyl benzyl phthalate	92		91		40-140	1		50
Di-n-butylphthalate	89		90		40-140	1		50
Di-n-octylphthalate	98		97		40-140	1		50
Diethyl phthalate	79		76		40-140	4		50
Dimethyl phthalate	76		72		40-140	5		50
Benzo(a)anthracene	81		81		40-140	0		50
Benzo(a)pyrene	74		72		40-140	3		50
Benzo(b)fluoranthene	76		72		40-140	5		50
Benzo(k)fluoranthene	77		76		40-140	1		50
Chrysene	74		74		40-140	0		50
Acenaphthylene	75		72		40-140	4		50
Anthracene	81		79		40-140	3		50
Benzo(ghi)perylene	77		84		40-140	9		50
Fluorene	77		82		40-140	6		50
Phenanthrene	75		80		40-140	6		50
Dibenzo(a,h)anthracene	80		92		40-140	14		50
Indeno(1,2,3-cd)pyrene	85		95		40-140	11		50
Pyrene	81		81		35-142	0		50
Biphenyl	78		73		37-127	7		50
4-Chloroaniline	61		58		40-140	5		50
2-Nitroaniline	88		81		47-134	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1272723-2 WG1272723-3								
3-Nitroaniline	68		66		26-129	3		50
4-Nitroaniline	79		82		41-125	4		50
Dibenzofuran	76		76		40-140	0		50
2-Methylnaphthalene	74		69		40-140	7		50
1,2,4,5-Tetrachlorobenzene	76		71		40-117	7		50
Acetophenone	78		78		14-144	0		50
2,4,6-Trichlorophenol	83		78		30-130	6		50
p-Chloro-m-cresol	91		81		26-103	12		50
2-Chlorophenol	76		77		25-102	1		50
2,4-Dichlorophenol	75		76		30-130	1		50
2,4-Dimethylphenol	78		79		30-130	1		50
2-Nitrophenol	82		83		30-130	1		50
4-Nitrophenol	83		84		11-114	1		50
2,4-Dinitrophenol	68		64		4-130	6		50
4,6-Dinitro-o-cresol	93		93		10-130	0		50
Pentachlorophenol	74		71		17-109	4		50
Phenol	76		77		26-90	1		50
2-Methylphenol	83		80		30-130.	4		50
3-Methylphenol/4-Methylphenol	81		79		30-130	3		50
2,4,5-Trichlorophenol	88		82		30-130	7		50
Benzoic Acid	44		40		10-110	10		50
Benzyl Alcohol	83		78		40-140	6		50
Carbazole	82		80		54-128	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1272723-2 WG1272723-3								
1,4-Dioxane	53		51		40-140	4		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		70		25-120
Phenol-d6	74		74		10-120
Nitrobenzene-d5	70		71		23-120
2-Fluorobiphenyl	66		61		30-120
2,4,6-Tribromophenol	74		73		10-136
4-Terphenyl-d14	75		73		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1274373-2 WG1274373-3								
Acenaphthene	76		71		37-111	7		30
1,2,4-Trichlorobenzene	80		77		39-98	4		30
Hexachlorobenzene	81		77		40-140	5		30
Bis(2-chloroethyl)ether	81		80		40-140	1		30
2-Chloronaphthalene	88		82		40-140	7		30
1,2-Dichlorobenzene	77		77		40-140	0		30
1,3-Dichlorobenzene	75		74		40-140	1		30
1,4-Dichlorobenzene	76		75		36-97	1		30
3,3'-Dichlorobenzidine	75		74		40-140	1		30
2,4-Dinitrotoluene	79		75		48-143	5		30
2,6-Dinitrotoluene	94		89		40-140	5		30
Fluoranthene	90		88		40-140	2		30
4-Chlorophenyl phenyl ether	80		77		40-140	4		30
4-Bromophenyl phenyl ether	82		78		40-140	5		30
Bis(2-chloroisopropyl)ether	99		95		40-140	4		30
Bis(2-chloroethoxy)methane	91		86		40-140	6		30
Hexachlorobutadiene	85		80		40-140	6		30
Hexachlorocyclopentadiene	77		74		40-140	4		30
Hexachloroethane	84		81		40-140	4		30
Isophorone	96		94		40-140	2		30
Naphthalene	81		75		40-140	8		30
Nitrobenzene	85		83		40-140	2		30
NDPA/DPA	82		80		40-140	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1274373-2 WG1274373-3								
n-Nitrosodi-n-propylamine	96		94		29-132	2		30
Bis(2-ethylhexyl)phthalate	90		87		40-140	3		30
Butyl benzyl phthalate	96		99		40-140	3		30
Di-n-butylphthalate	92		90		40-140	2		30
Di-n-octylphthalate	98		96		40-140	2		30
Diethyl phthalate	90		86		40-140	5		30
Dimethyl phthalate	102		97		40-140	5		30
Benzo(a)anthracene	83		82		40-140	1		30
Benzo(a)pyrene	80		81		40-140	1		30
Benzo(b)fluoranthene	87		82		40-140	6		30
Benzo(k)fluoranthene	84		85		40-140	1		30
Chrysene	82		81		40-140	1		30
Acenaphthylene	92		87		45-123	6		30
Anthracene	85		84		40-140	1		30
Benzo(ghi)perylene	82		81		40-140	1		30
Fluorene	78		76		40-140	3		30
Phenanthrene	81		78		40-140	4		30
Dibenzo(a,h)anthracene	85		84		40-140	1		30
Indeno(1,2,3-cd)pyrene	74		79		40-140	7		30
Pyrene	88		88		26-127	0		30
Biphenyl	80		75		40-140	6		30
4-Chloroaniline	86		86		40-140	0		30
2-Nitroaniline	90		88		52-143	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1274373-2 WG1274373-3								
3-Nitroaniline	74		72		25-145	3		30
4-Nitroaniline	73		70		51-143	4		30
Dibenzofuran	76		72		40-140	5		30
2-Methylnaphthalene	80		77		40-140	4		30
1,2,4,5-Tetrachlorobenzene	80		75		2-134	6		30
Acetophenone	76		72		39-129	5		30
2,4,6-Trichlorophenol	91		84		30-130	8		30
p-Chloro-m-cresol	97		92		23-97	5		30
2-Chlorophenol	83		82		27-123	1		30
2,4-Dichlorophenol	90		86		30-130	5		30
2,4-Dimethylphenol	88		89		30-130	1		30
2-Nitrophenol	90		88		30-130	2		30
4-Nitrophenol	83	Q	78		10-80	6		30
2,4-Dinitrophenol	78		74		20-130	5		30
4,6-Dinitro-o-cresol	93		88		20-164	6		30
Pentachlorophenol	88		82		9-103	7		30
Phenol	65		63		12-110	3		30
2-Methylphenol	85		83		30-130	2		30
3-Methylphenol/4-Methylphenol	86		89		30-130	3		30
2,4,5-Trichlorophenol	99		97		30-130	2		30
Benzoic Acid	66		59		10-164	11		30
Benzyl Alcohol	82		82		26-116	0		30
Carbazole	86		86		55-144	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1274373-2 WG1274373-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	71		69		21-120
Phenol-d6	62		62		10-120
Nitrobenzene-d5	85		84		23-120
2-Fluorobiphenyl	87		84		15-120
2,4,6-Tribromophenol	78		77		10-120
4-Terphenyl-d14	88		89		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 05 Batch: WG1274374-2 WG1274374-3								
Acenaphthene	95		88		40-140	8		40
2-Chloronaphthalene	92		87		40-140	6		40
Fluoranthene	101		94		40-140	7		40
Hexachlorobutadiene	89		84		40-140	6		40
Naphthalene	93		88		40-140	6		40
Benzo(a)anthracene	103		92		40-140	11		40
Benzo(a)pyrene	100		82		40-140	20		40
Benzo(b)fluoranthene	106		100		40-140	6		40
Benzo(k)fluoranthene	106		98		40-140	8		40
Chrysene	101		94		40-140	7		40
Acenaphthylene	92		88		40-140	4		40
Anthracene	101		92		40-140	9		40
Benzo(ghi)perylene	110		99		40-140	11		40
Fluorene	96		90		40-140	6		40
Phenanthrene	98		92		40-140	6		40
Dibenzo(a,h)anthracene	112		104		40-140	7		40
Indeno(1,2,3-cd)pyrene	107		100		40-140	7		40
Pyrene	102		91		40-140	11		40
2-Methylnaphthalene	93		87		40-140	7		40
Pentachlorophenol	89		79		40-140	12		40
Hexachlorobenzene	96		90		40-140	6		40
Hexachloroethane	86		81		40-140	6		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 05 Batch: WG1274374-2 WG1274374-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	71		65		21-120
Phenol-d6	61		57		10-120
Nitrobenzene-d5	88		82		23-120
2-Fluorobiphenyl	86		82		15-120
2,4,6-Tribromophenol	79		77		10-120
4-Terphenyl-d14	93		88		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1274740-2 WG1274740-3								
Acenaphthene	83		102		31-137	21		50
1,2,4-Trichlorobenzene	97		108	Q	38-107	11		50
Hexachlorobenzene	92		107		40-140	15		50
Bis(2-chloroethyl)ether	96		106		40-140	10		50
2-Chloronaphthalene	83		91		40-140	9		50
1,2-Dichlorobenzene	90		104		40-140	14		50
1,3-Dichlorobenzene	85		96		40-140	12		50
1,4-Dichlorobenzene	87		100		28-104	14		50
3,3'-Dichlorobenzidine	70		90		40-140	25		50
2,4-Dinitrotoluene	105		125		40-132	17		50
2,6-Dinitrotoluene	96		114		40-140	17		50
Fluoranthene	98		120		40-140	20		50
4-Chlorophenyl phenyl ether	83		102		40-140	21		50
4-Bromophenyl phenyl ether	91		105		40-140	14		50
Bis(2-chloroisopropyl)ether	77		91		40-140	17		50
Bis(2-chloroethoxy)methane	110		120	Q	40-117	9		50
Hexachlorobutadiene	84		95		40-140	12		50
Hexachlorocyclopentadiene	80		84		40-140	5		50
Hexachloroethane	94		111		40-140	17		50
Isophorone	107		126		40-140	16		50
Naphthalene	88		97		40-140	10		50
Nitrobenzene	101		121		40-140	18		50
NDPA/DPA	94		110		36-157	16		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1274740-2 WG1274740-3								
n-Nitrosodi-n-propylamine	108		126	Q	32-121	15		50
Bis(2-ethylhexyl)phthalate	106		127		40-140	18		50
Butyl benzyl phthalate	111		139		40-140	22		50
Di-n-butylphthalate	106		138		40-140	26		50
Di-n-octylphthalate	125		140		40-140	11		50
Diethyl phthalate	97		112		40-140	14		50
Dimethyl phthalate	87		103		40-140	17		50
Benzo(a)anthracene	97		115		40-140	17		50
Benzo(a)pyrene	99		112		40-140	12		50
Benzo(b)fluoranthene	106		102		40-140	4		50
Benzo(k)fluoranthene	92		119		40-140	26		50
Chrysene	92		111		40-140	19		50
Acenaphthylene	82		98		40-140	18		50
Anthracene	97		113		40-140	15		50
Benzo(ghi)perylene	96		116		40-140	19		50
Fluorene	92		108		40-140	16		50
Phenanthrene	93		104		40-140	11		50
Dibenzo(a,h)anthracene	104		128		40-140	21		50
Indeno(1,2,3-cd)pyrene	101		131		40-140	26		50
Pyrene	94		114		35-142	19		50
Biphenyl	90		101		37-127	12		50
4-Chloroaniline	79		88		40-140	11		50
2-Nitroaniline	102		119		47-134	15		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1274740-2 WG1274740-3								
3-Nitroaniline	81		98		26-129	19		50
4-Nitroaniline	94		111		41-125	17		50
Dibenzofuran	90		107		40-140	17		50
2-Methylnaphthalene	86		93		40-140	8		50
1,2,4,5-Tetrachlorobenzene	91		93		40-117	2		50
Acetophenone	113		126		14-144	11		50
2,4,6-Trichlorophenol	90		103		30-130	13		50
p-Chloro-m-cresol	106	Q	106	Q	26-103	0		50
2-Chlorophenol	108	Q	120	Q	25-102	11		50
2,4-Dichlorophenol	120		128		30-130	6		50
2,4-Dimethylphenol	119		130		30-130	9		50
2-Nitrophenol	122		132	Q	30-130	8		50
4-Nitrophenol	109		124	Q	11-114	13		50
2,4-Dinitrophenol	77		89		4-130	14		50
4,6-Dinitro-o-cresol	115		140	Q	10-130	20		50
Pentachlorophenol	94		106		17-109	12		50
Phenol	102	Q	108	Q	26-90	6		50
2-Methylphenol	112		134	Q	30-130.	18		50
3-Methylphenol/4-Methylphenol	113		130		30-130	14		50
2,4,5-Trichlorophenol	101		114		30-130	12		50
Benzoic Acid	26		33		10-110	24		50
Benzyl Alcohol	109		122		40-140	11		50
Carbazole	102		117		54-128	14		50

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1274740-2 WG1274740-3								
1,4-Dioxane	77		86		40-140	11		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	90		105		25-120
Phenol-d6	102		111		10-120
Nitrobenzene-d5	93		113		23-120
2-Fluorobiphenyl	73		76		30-120
2,4,6-Tribromophenol	84		100		10-136
4-Terphenyl-d14	83		100		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

<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>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG1274740-4 WG1274740-5 QC Sample: L1936709-03 Client ID: DUP01_081419												
Acenaphthene	ND	1390	1100	79		930	67		31-137	17		50
1,2,4-Trichlorobenzene	ND	1390	1000	72		880	63		38-107	13		50
Hexachlorobenzene	ND	1390	1200	86		980	71		40-140	20		50
Bis(2-chloroethyl)ether	ND	1390	1100	79		920	66		40-140	18		50
2-Chloronaphthalene	ND	1390	1000	72		890	64		40-140	12		50
1,2-Dichlorobenzene	ND	1390	1100	79		940	68		40-140	16		50
1,3-Dichlorobenzene	ND	1390	1000	72		870	63		40-140	14		50
1,4-Dichlorobenzene	ND	1390	1000	72		890	64		28-104	12		50
3,3'-Dichlorobenzidine	ND	1390	1400	100		860	62		40-140	48		50
2,4-Dinitrotoluene	ND	1390	1100	79		930	67		40-132	17		50
2,6-Dinitrotoluene	ND	1390	1100	79		960	69		40-140	14		50
Fluoranthene	130	1390	1200	77		1100	70		40-140	9		50
4-Chlorophenyl phenyl ether	ND	1390	1000	72		900	65		40-140	11		50
4-Bromophenyl phenyl ether	ND	1390	1200	86		950	68		40-140	23		50
Bis(2-chloroisopropyl)ether	ND	1390	870	63		740	53		40-140	16		50
Bis(2-chloroethoxy)methane	ND	1390	1100	79		950	68		40-117	15		50
Hexachlorobutadiene	ND	1390	990	71		890	64		40-140	11		50
Hexachlorocyclopentadiene	ND	1390	360J	26	Q	280J	20	Q	40-140	25		50
Hexachloroethane	ND	1390	910	65		810	58		40-140	12		50
Isophorone	ND	1390	1200	86		990	71		40-140	19		50
Naphthalene	ND	1390	1000	72		900	65		40-140	11		50
Nitrobenzene	ND	1390	1100	79		950	68		40-140	15		50
NDPA/DPA	ND	1390	1100	79		990	71		36-157	11		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

<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>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG1274740-4 WG1274740-5 QC Sample: L1936709-03 Client ID: DUP01_081419												
n-Nitrosodi-n-propylamine	ND	1390	1200	86		1000	72		32-121	18		50
Bis(2-ethylhexyl)phthalate	ND	1390	1300	93		1100	79		40-140	17		50
Butyl benzyl phthalate	ND	1390	1300	93		1200	86		40-140	8		50
Di-n-butylphthalate	ND	1390	1300	93		1200	86		40-140	8		50
Di-n-octylphthalate	ND	1390	1400	100		1200	86		40-140	15		50
Diethyl phthalate	ND	1390	1100	79		1000	72		40-140	10		50
Dimethyl phthalate	ND	1390	1100	79		930	67		40-140	17		50
Benzo(a)anthracene	71J	1390	1300	93		1100	79		40-140	17		50
Benzo(a)pyrene	65J	1390	1200	86		950	68		40-140	23		50
Benzo(b)fluoranthene	77J	1390	1200	86		980	71		40-140	20		50
Benzo(k)fluoranthene	33J	1390	1100	79		950	68		40-140	15		50
Chrysene	64J	1390	1100	79		950	68		40-140	15		50
Acenaphthylene	ND	1390	1100	79		940	68		40-140	16		50
Anthracene	ND	1390	1200	86		1100	79		40-140	9		50
Benzo(ghi)perylene	55J	1390	1100	79		1100	79		40-140	0		50
Fluorene	ND	1390	1100	79		980	71		40-140	12		50
Phenanthrene	59J	1390	1200	86		1000	72		40-140	18		50
Dibenzo(a,h)anthracene	ND	1390	1200	86		1100	79		40-140	9		50
Indeno(1,2,3-cd)pyrene	54J	1390	1200	86		1100	79		40-140	9		50
Pyrene	120	1390	1200	78		1100	71		35-142	9		50
Biphenyl	ND	1390	1100	79		960	69		37-127	14		50
4-Chloroaniline	ND	1390	880	63		670	48		40-140	27		50
2-Nitroaniline	ND	1390	1400	100		1100	79		47-134	24		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

<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>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG1274740-4 WG1274740-5 QC Sample: L1936709-03 Client ID: DUP01_081419												
3-Nitroaniline	ND	1390	1300	93		1100	79		26-129	17		50
4-Nitroaniline	ND	1390	1300	93		1100	79		41-125	17		50
Dibenzofuran	ND	1390	1100	79		900	65		40-140	20		50
2-Methylnaphthalene	ND	1390	1100	79		880	63		40-140	22		50
1,2,4,5-Tetrachlorobenzene	ND	1390	1100	79		900	65		40-117	20		50
Acetophenone	ND	1390	1200	86		1000	72		14-144	18		50
2,4,6-Trichlorophenol	ND	1390	1200	86		1000	72		30-130	18		50
p-Chloro-m-cresol	ND	1390	1300	93		1100	79		26-103	17		50
2-Chlorophenol	ND	1390	1200	86		1000	72		25-102	18		50
2,4-Dichlorophenol	ND	1390	1200	86		1000	72		30-130	18		50
2,4-Dimethylphenol	ND	1390	1100	79		880	63		30-130	22		50
2-Nitrophenol	ND	1390	930	67		790	57		30-130	16		50
4-Nitrophenol	ND	1390	1200	86		950	68		11-114	23		50
2,4-Dinitrophenol	ND	1390	ND	0	Q	ND	0	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1390	100J	7	Q	93J	7	Q	10-130	7		50
Pentachlorophenol	ND	1390	1100	79		940	68		17-109	16		50
Phenol	ND	1390	1100	79		930	67		26-90	17		50
2-Methylphenol	ND	1390	1200	86		1000	72		30-130	18		50
3-Methylphenol/4-Methylphenol	ND	1390	1200	86		1000	72		30-130	18		50
2,4,5-Trichlorophenol	ND	1390	1200	86		1100	79		30-130	9		50
Benzoic Acid	ND	1390	ND	0	Q	ND	0	Q	10-110	NC		50
Benzyl Alcohol	ND	1390	1200	86		1000	72		40-140	18		50
Carbazole	ND	1390	1300	93		1100	79		54-128	17		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG1274740-4 WG1274740-5 QC Sample: L1936709-03 Client ID: DUP01_081419												
1,4-Dioxane	ND	1390	890	64		690	50		40-140	25		50

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	84		65		10-136
2-Fluorobiphenyl	67		56		30-120
2-Fluorophenol	85		64		25-120
4-Terphenyl-d14	72		59		18-120
Nitrobenzene-d5	86		64		23-120
Phenol-d6	90		67		10-120

Matrix Spike Analysis

Batch Quality Control

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Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

<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>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG1274740-6 WG1274740-7 QC Sample: L1936709-04 Client ID: DUP02_081419												
Acenaphthene	ND	1410	1000	71		1000	71		31-137	0		50
1,2,4-Trichlorobenzene	ND	1410	920	65		1000	71		38-107	8		50
Hexachlorobenzene	ND	1410	1000	71		1000	71		40-140	0		50
Bis(2-chloroethyl)ether	ND	1410	830	59		950	67		40-140	13		50
2-Chloronaphthalene	ND	1410	1000	71		1100	78		40-140	10		50
1,2-Dichlorobenzene	ND	1410	820	58		970	69		40-140	17		50
1,3-Dichlorobenzene	ND	1410	750	53		950	67		40-140	24		50
1,4-Dichlorobenzene	ND	1410	760	54		940	67		28-104	21		50
3,3'-Dichlorobenzidine	ND	1410	860	61		940	67		40-140	9		50
2,4-Dinitrotoluene	ND	1410	1300	92		1300	92		40-132	0		50
2,6-Dinitrotoluene	ND	1410	1300	92		1300	92		40-140	0		50
Fluoranthene	230	1410	1300	76		1300	76		40-140	0		50
4-Chlorophenyl phenyl ether	ND	1410	1000	71		1000	71		40-140	0		50
4-Bromophenyl phenyl ether	ND	1410	1000	71		970	69		40-140	3		50
Bis(2-chloroisopropyl)ether	ND	1410	710	50		800	57		40-140	12		50
Bis(2-chloroethoxy)methane	ND	1410	900	64		940	67		40-117	4		50
Hexachlorobutadiene	ND	1410	990	70		1100	78		40-140	11		50
Hexachlorocyclopentadiene	ND	1410	590	42		600	43		40-140	2		50
Hexachloroethane	ND	1410	840	60		1000	71		40-140	17		50
Isophorone	ND	1410	940	67		1000	71		40-140	6		50
Naphthalene	ND	1410	980	69		1000	71		40-140	2		50
Nitrobenzene	ND	1410	980	69		1100	78		40-140	12		50
NDPA/DPA	ND	1410	1100	78		1100	78		36-157	0		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

<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>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG1274740-6 WG1274740-7 QC Sample: L1936709-04 Client ID: DUP02_081419												
n-Nitrosodi-n-propylamine	ND	1410	980	69		1100	78		32-121	12		50
Bis(2-ethylhexyl)phthalate	ND	1410	1200	85		1200	85		40-140	0		50
Butyl benzyl phthalate	ND	1410	1200	85		1200	85		40-140	0		50
Di-n-butylphthalate	ND	1410	1100	78		1100	78		40-140	0		50
Di-n-octylphthalate	ND	1410	1200	85		1200	85		40-140	0		50
Diethyl phthalate	ND	1410	1100	78		1100	78		40-140	0		50
Dimethyl phthalate	ND	1410	1100	78		1200	85		40-140	9		50
Benzo(a)anthracene	150	1410	1100	67		1100	67		40-140	0		50
Benzo(a)pyrene	130J	1410	1100	78		1100	78		40-140	0		50
Benzo(b)fluoranthene	200	1410	1100	64		1100	64		40-140	0		50
Benzo(k)fluoranthene	58J	1410	1100	78		1000	71		40-140	10		50
Chrysene	130	1410	1200	76		1100	69		40-140	9		50
Acenaphthylene	32J	1410	1100	78		1200	85		40-140	9		50
Anthracene	ND	1410	1000	71		1000	71		40-140	0		50
Benzo(ghi)perylene	93J	1410	1100	78		1100	78		40-140	0		50
Fluorene	ND	1410	1100	78		1100	78		40-140	0		50
Phenanthrene	83J	1410	1100	78		1100	78		40-140	0		50
Dibenzo(a,h)anthracene	ND	1410	1000	71		1000	71		40-140	0		50
Indeno(1,2,3-cd)pyrene	96J	1410	1100	78		1100	78		40-140	0		50
Pyrene	230	1410	1300	76		1300	76		35-142	0		50
Biphenyl	ND	1410	1100	78		1100	78		37-127	0		50
4-Chloroaniline	ND	1410	920	65		1100	78		40-140	18		50
2-Nitroaniline	ND	1410	1400	99		1400	99		47-134	0		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

<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>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG1274740-6 WG1274740-7 QC Sample: L1936709-04 Client ID: DUP02_081419												
3-Nitroaniline	ND	1410	1200	85		1200	85		26-129	0		50
4-Nitroaniline	ND	1410	1200	85		1200	85		41-125	0		50
Dibenzofuran	ND	1410	1100	78		1100	78		40-140	0		50
2-Methylnaphthalene	ND	1410	1000	71		1000	71		40-140	0		50
1,2,4,5-Tetrachlorobenzene	ND	1410	1000	71		1100	78		40-117	10		50
Acetophenone	ND	1410	960	68		1000	71		14-144	4		50
2,4,6-Trichlorophenol	ND	1410	690	49		520	37		30-130	28		50
p-Chloro-m-cresol	ND	1410	1200	85		1300	92		26-103	8		50
2-Chlorophenol	ND	1410	920	65		970	69		25-102	5		50
2,4-Dichlorophenol	ND	1410	1100	78		1000	71		30-130	10		50
2,4-Dimethylphenol	ND	1410	910	64		890	63		30-130	2		50
2-Nitrophenol	ND	1410	1100	78		1100	78		30-130	0		50
4-Nitrophenol	ND	1410	300	21		240J	17		11-114	22		50
2,4-Dinitrophenol	ND	1410	ND	0	Q	ND	0	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1410	180J	13		130J	9	Q	10-130	32		50
Pentachlorophenol	ND	1410	180	13	Q	100J	7	Q	17-109	57	Q	50
Phenol	ND	1410	870	62		1000	71		26-90	14		50
2-Methylphenol	ND	1410	980	69		1000	71		30-130.	2		50
3-Methylphenol/4-Methylphenol	ND	1410	1100	78		1100	78		30-130	0		50
2,4,5-Trichlorophenol	ND	1410	1000	71		1000	71		30-130	0		50
Benzoic Acid	ND	1410	ND	0	Q	ND	0	Q	10-110	NC		50
Benzyl Alcohol	ND	1410	1000	71		1200	85		40-140	18		50
Carbazole	ND	1410	1100	78		1100	78		54-128	0		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

<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>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG1274740-6 WG1274740-7 QC Sample: L1936709-04 Client ID: DUP02_081419												
1,4-Dioxane	ND	1410	420	30	Q	700	50		40-140	50		50

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>	
2,4,6-Tribromophenol	65		53		10-136
2-Fluorobiphenyl	73		73		30-120
2-Fluorophenol	60		60		25-120
4-Terphenyl-d14	69		66		18-120
Nitrobenzene-d5	74		83		23-120
Phenol-d6	71		77		10-120

PCBS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-01
Client ID: EP13_10.5_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 12:00
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 08/15/19 16:37
Analyst: AWS
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 08/15/19 06:12
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/19
Cleanup Method: EPA 3660B
Cleanup Date: 08/15/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.9	3.01	1	A
Aroclor 1221	ND		ug/kg	33.9	3.40	1	A
Aroclor 1232	ND		ug/kg	33.9	7.19	1	A
Aroclor 1242	ND		ug/kg	33.9	4.57	1	A
Aroclor 1248	ND		ug/kg	33.9	5.09	1	A
Aroclor 1254	ND		ug/kg	33.9	3.71	1	A
Aroclor 1260	ND		ug/kg	33.9	6.27	1	A
Aroclor 1262	ND		ug/kg	33.9	4.31	1	A
Aroclor 1268	ND		ug/kg	33.9	3.52	1	A
PCBs, Total	ND		ug/kg	33.9	3.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-02
 Client ID: EP16_9.5_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:45
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 08/15/19 16:50
 Analyst: AWS
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 08/15/19 06:12
 Cleanup Method: EPA 3665A
 Cleanup Date: 08/15/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 08/15/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.3	3.04	1	A
Aroclor 1221	ND		ug/kg	34.3	3.43	1	A
Aroclor 1232	ND		ug/kg	34.3	7.27	1	A
Aroclor 1242	ND		ug/kg	34.3	4.62	1	A
Aroclor 1248	ND		ug/kg	34.3	5.14	1	A
Aroclor 1254	5.53	J	ug/kg	34.3	3.75	1	B
Aroclor 1260	ND		ug/kg	34.3	6.34	1	A
Aroclor 1262	ND		ug/kg	34.3	4.35	1	A
Aroclor 1268	ND		ug/kg	34.3	3.55	1	A
PCBs, Total	5.53	J	ug/kg	34.3	3.04	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-03
Client ID: DUP01_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 08/23/19 20:25
Analyst: AD
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 08/15/19 02:01
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/19
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.8	3.09	1	A
Aroclor 1221	ND		ug/kg	34.8	3.49	1	A
Aroclor 1232	ND		ug/kg	34.8	7.38	1	A
Aroclor 1242	ND		ug/kg	34.8	4.69	1	A
Aroclor 1248	ND		ug/kg	34.8	5.22	1	A
Aroclor 1254	ND		ug/kg	34.8	3.81	1	A
Aroclor 1260	ND		ug/kg	34.8	6.43	1	A
Aroclor 1262	ND		ug/kg	34.8	4.42	1	A
Aroclor 1268	ND		ug/kg	34.8	3.61	1	A
PCBs, Total	ND		ug/kg	34.8	3.09	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-04
Client ID: DUP02_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 08/23/19 22:12
Analyst: AD
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 08/15/19 02:01
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/19
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.8	3.10	1	A
Aroclor 1221	ND		ug/kg	34.8	3.49	1	A
Aroclor 1232	ND		ug/kg	34.8	7.39	1	A
Aroclor 1242	ND		ug/kg	34.8	4.70	1	A
Aroclor 1248	ND		ug/kg	34.8	5.23	1	A
Aroclor 1254	ND		ug/kg	34.8	3.81	1	A
Aroclor 1260	ND		ug/kg	34.8	6.44	1	A
Aroclor 1262	ND		ug/kg	34.8	4.43	1	A
Aroclor 1268	ND		ug/kg	34.8	3.61	1	A
PCBs, Total	ND		ug/kg	34.8	3.10	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-05
Client ID: EP_FB02_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:50
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/17/19 16:56
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 08/15/19 02:19
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/19
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 08/16/19 09:59
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 08/14/19 18:02
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/19
Cleanup Method: EPA 3660B
Cleanup Date: 08/15/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 05 Batch: WG1272451-1						
Aroclor 1016	ND		ug/l	0.083	0.034	A
Aroclor 1221	ND		ug/l	0.083	0.067	A
Aroclor 1232	ND		ug/l	0.083	0.046	A
Aroclor 1242	ND		ug/l	0.083	0.039	A
Aroclor 1248	ND		ug/l	0.083	0.049	A
Aroclor 1254	ND		ug/l	0.083	0.039	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.035	A
Aroclor 1268	ND		ug/l	0.083	0.034	A
PCBs, Total	ND		ug/l	0.083	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8082A
 Analytical Date: 08/15/19 17:03
 Analyst: AWS

Extraction Method: EPA 3546
 Extraction Date: 08/14/19 21:27
 Cleanup Method: EPA 3665A
 Cleanup Date: 08/15/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 08/15/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03-04 Batch: WG1272505-1						
Aroclor 1016	ND		ug/kg	32.9	2.92	A
Aroclor 1221	ND		ug/kg	32.9	3.30	A
Aroclor 1232	ND		ug/kg	32.9	6.98	A
Aroclor 1242	ND		ug/kg	32.9	4.44	A
Aroclor 1248	ND		ug/kg	32.9	4.94	A
Aroclor 1254	ND		ug/kg	32.9	3.60	A
Aroclor 1260	ND		ug/kg	32.9	6.08	A
Aroclor 1262	ND		ug/kg	32.9	4.18	A
Aroclor 1268	ND		ug/kg	32.9	3.41	A
PCBs, Total	ND		ug/kg	32.9	2.92	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 08/15/19 15:46
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 08/15/19 06:00
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/19
Cleanup Method: EPA 3660B
Cleanup Date: 08/15/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1272627-1						
Aroclor 1016	ND		ug/kg	32.8	2.92	A
Aroclor 1221	ND		ug/kg	32.8	3.29	A
Aroclor 1232	ND		ug/kg	32.8	6.96	A
Aroclor 1242	ND		ug/kg	32.8	4.43	A
Aroclor 1248	ND		ug/kg	32.8	4.93	A
Aroclor 1254	ND		ug/kg	32.8	3.59	A
Aroclor 1260	ND		ug/kg	32.8	6.07	A
Aroclor 1262	ND		ug/kg	32.8	4.17	A
Aroclor 1268	ND		ug/kg	32.8	3.40	A
PCBs, Total	ND		ug/kg	32.8	2.92	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	95		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 05 Batch: WG1272451-2 WG1272451-3									
Aroclor 1016	75		69		40-140	8		50	A
Aroclor 1260	69		63		40-140	8		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		64		30-150	A
Decachlorobiphenyl	83		75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		62		30-150	B
Decachlorobiphenyl	74		69		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03-04 Batch: WG1272505-2 WG1272505-3									
Aroclor 1016	66		66		40-140	0		50	A
Aroclor 1260	71		70		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		71		30-150	A
Decachlorobiphenyl	85		83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		71		30-150	B
Decachlorobiphenyl	94		89		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1272627-2 WG1272627-3									
Aroclor 1016	66		61		40-140	8		50	A
Aroclor 1260	68		64		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		59		30-150	A
Decachlorobiphenyl	72		67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		59		30-150	B
Decachlorobiphenyl	81		74		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG1272505-4 WG1272505-5 QC Sample: L1936709-03 Client ID: DUP01_081419													
Aroclor 1016	ND	210	146	70		154	74		40-140	5		50	A
Aroclor 1260	ND	210	135	64		143	69		40-140	6		50	A

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
2,4,5,6-Tetrachloro-m-xylene	64		69		30-150	A
Decachlorobiphenyl	69		75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		70		30-150	B
Decachlorobiphenyl	75		83		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG1272505-6 WG1272505-7 QC Sample: L1936709-04 Client ID: DUP02_081419													
Aroclor 1016	ND	211	154	73		160	72		40-140	4		50	A
Aroclor 1260	ND	211	140	66		152	68		40-140	8		50	A

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
2,4,5,6-Tetrachloro-m-xylene	66		65		30-150	A
Decachlorobiphenyl	72		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		66		30-150	B
Decachlorobiphenyl	78		75		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-01
 Client ID: EP13_10.5_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 12:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 08/15/19 14:27
 Analyst: AMC
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 08/15/19 06:03
 Cleanup Method: EPA 3620B
 Cleanup Date: 08/15/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.320	1	A
Lindane	ND		ug/kg	0.682	0.305	1	A
Alpha-BHC	ND		ug/kg	0.682	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.620	1	A
Heptachlor	ND		ug/kg	0.818	0.367	1	A
Aldrin	ND		ug/kg	1.64	0.576	1	A
Heptachlor epoxide	ND		ug/kg	3.07	0.920	1	A
Endrin	ND		ug/kg	0.682	0.280	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.716	1	A
Endrin ketone	ND		ug/kg	1.64	0.421	1	A
Dieldrin	ND		ug/kg	1.02	0.511	1	A
4,4'-DDE	ND		ug/kg	1.64	0.378	1	A
4,4'-DDD	ND		ug/kg	1.64	0.584	1	B
4,4'-DDT	ND		ug/kg	3.07	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.386	1	A
Endosulfan II	ND		ug/kg	1.64	0.547	1	A
Endosulfan sulfate	ND		ug/kg	0.682	0.324	1	A
Methoxychlor	ND		ug/kg	3.07	0.954	1	A
Toxaphene	ND		ug/kg	30.7	8.59	1	A
cis-Chlordane	ND		ug/kg	2.04	0.570	1	A
trans-Chlordane	ND		ug/kg	2.04	0.540	1	A
Chlordane	ND		ug/kg	13.3	5.42	1	A

Project Name: 300 WEST 122ND STREET**Lab Number:** L1936709**Project Number:** 170500202**Report Date:** 08/26/19**SAMPLE RESULTS**

Lab ID: L1936709-01

Date Collected: 08/14/19 12:00

Client ID: EP13_10.5_081419

Date Received: 08/14/19

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	B
Decachlorobiphenyl	124		30-150	B
2,4,5,6-Tetrachloro-m-xylene	101		30-150	A
Decachlorobiphenyl	96		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-01
 Client ID: EP13_10.5_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 12:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 08/15/19 13:24
 Analyst: DGM
 Percent Solids: 94%
 Methylation Date: 08/15/19 12:31

Extraction Method: EPA 8151A
 Extraction Date: 08/15/19 04:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	174	11.0	1	A
2,4,5-T	ND		ug/kg	174	5.39	1	A
2,4,5-TP (Silvex)	ND		ug/kg	174	4.63	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	104		30-150	A
DCAA	99		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-02
 Client ID: EP16_9.5_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:45
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 08/15/19 14:40
 Analyst: AMC
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 08/15/19 06:03
 Cleanup Method: EPA 3620B
 Cleanup Date: 08/15/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.329	1	A
Lindane	ND		ug/kg	0.700	0.313	1	A
Alpha-BHC	ND		ug/kg	0.700	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.637	1	A
Heptachlor	ND		ug/kg	0.840	0.377	1	A
Aldrin	ND		ug/kg	1.68	0.592	1	A
Heptachlor epoxide	ND		ug/kg	3.15	0.945	1	A
Endrin	ND		ug/kg	0.700	0.287	1	A
Endrin aldehyde	ND		ug/kg	2.10	0.735	1	A
Endrin ketone	ND		ug/kg	1.68	0.433	1	A
Dieldrin	ND		ug/kg	1.05	0.525	1	A
4,4'-DDE	2.38		ug/kg	1.68	0.389	1	A
4,4'-DDD	ND		ug/kg	1.68	0.599	1	A
4,4'-DDT	ND	IP	ug/kg	3.15	1.35	1	A
Endosulfan I	ND		ug/kg	1.68	0.397	1	A
Endosulfan II	ND		ug/kg	1.68	0.562	1	A
Endosulfan sulfate	ND		ug/kg	0.700	0.333	1	A
Methoxychlor	ND		ug/kg	3.15	0.980	1	A
Toxaphene	ND		ug/kg	31.5	8.82	1	A
cis-Chlordane	ND		ug/kg	2.10	0.585	1	A
trans-Chlordane	ND		ug/kg	2.10	0.555	1	A
Chlordane	ND		ug/kg	13.6	5.57	1	A

Project Name: 300 WEST 122ND STREET**Lab Number:** L1936709**Project Number:** 170500202**Report Date:** 08/26/19**SAMPLE RESULTS**

Lab ID: L1936709-02

Date Collected: 08/14/19 14:45

Client ID: EP16_9.5_081419

Date Received: 08/14/19

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	B
Decachlorobiphenyl	129		30-150	B
2,4,5,6-Tetrachloro-m-xylene	118		30-150	A
Decachlorobiphenyl	90		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-02
 Client ID: EP16_9.5_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:45
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 08/15/19 13:42
 Analyst: DGM
 Percent Solids: 93%
 Methylation Date: 08/15/19 12:31

Extraction Method: EPA 8151A
 Extraction Date: 08/15/19 04:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	176	11.1	1	A
2,4,5-T	ND		ug/kg	176	5.46	1	A
2,4,5-TP (Silvex)	ND		ug/kg	176	4.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	98		30-150	A
DCAA	91		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-03
Client ID: DUP01_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/21/19 17:52
Analyst: BM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 08/15/19 02:08
Cleanup Method: EPA 3620B
Cleanup Date: 08/19/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.62	0.318	1	A
Lindane	ND		ug/kg	0.676	0.302	1	A
Alpha-BHC	ND		ug/kg	0.676	0.192	1	A
Beta-BHC	ND		ug/kg	1.62	0.615	1	A
Heptachlor	ND		ug/kg	0.811	0.364	1	A
Aldrin	ND		ug/kg	1.62	0.571	1	A
Heptachlor epoxide	ND		ug/kg	3.04	0.913	1	B
Endrin	ND		ug/kg	0.676	0.277	1	A
Endrin aldehyde	ND		ug/kg	2.03	0.710	1	A
Endrin ketone	ND		ug/kg	1.62	0.418	1	A
Dieldrin	ND		ug/kg	1.01	0.507	1	A
4,4'-DDE	ND		ug/kg	1.62	0.375	1	A
4,4'-DDD	ND		ug/kg	1.62	0.579	1	A
4,4'-DDT	ND		ug/kg	3.04	1.30	1	A
Endosulfan I	ND		ug/kg	1.62	0.383	1	A
Endosulfan II	ND		ug/kg	1.62	0.542	1	A
Endosulfan sulfate	ND		ug/kg	0.676	0.322	1	A
Methoxychlor	ND		ug/kg	3.04	0.947	1	A
Toxaphene	ND		ug/kg	30.4	8.52	1	A
cis-Chlordane	0.567	JIP	ug/kg	2.03	0.565	1	B
trans-Chlordane	ND		ug/kg	2.03	0.536	1	A
Chlordane	ND		ug/kg	13.2	5.38	1	A

Project Name: 300 WEST 122ND STREET**Lab Number:** L1936709**Project Number:** 170500202**Report Date:** 08/26/19**SAMPLE RESULTS**

Lab ID: L1936709-03

Date Collected: 08/14/19 00:00

Client ID: DUP01_081419

Date Received: 08/14/19

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	72		30-150	B
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	71		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-03
 Client ID: DUP01_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 08/20/19 00:24
 Analyst: DGM
 Percent Solids: 95%
 Methylation Date: 08/18/19 22:20

Extraction Method: EPA 8151A
 Extraction Date: 08/17/19 15:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	170	10.7	1	A
2,4,5-T	ND		ug/kg	170	5.26	1	A
2,4,5-TP (Silvex)	ND		ug/kg	170	4.52	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	75		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-04
 Client ID: DUP02_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 08/21/19 18:30
 Analyst: BM
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 08/15/19 02:08
 Cleanup Method: EPA 3620B
 Cleanup Date: 08/21/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.327	1	A
Lindane	ND		ug/kg	0.696	0.311	1	A
Alpha-BHC	ND		ug/kg	0.696	0.198	1	A
Beta-BHC	ND		ug/kg	1.67	0.633	1	A
Heptachlor	ND		ug/kg	0.835	0.374	1	A
Aldrin	ND		ug/kg	1.67	0.588	1	A
Heptachlor epoxide	ND		ug/kg	3.13	0.939	1	A
Endrin	ND		ug/kg	0.696	0.285	1	A
Endrin aldehyde	ND		ug/kg	2.09	0.731	1	A
Endrin ketone	ND		ug/kg	1.67	0.430	1	A
Dieldrin	ND		ug/kg	1.04	0.522	1	A
4,4'-DDE	0.544	JIP	ug/kg	1.67	0.386	1	A
4,4'-DDD	ND		ug/kg	1.67	0.596	1	A
4,4'-DDT	ND		ug/kg	3.13	1.34	1	A
Endosulfan I	ND		ug/kg	1.67	0.394	1	A
Endosulfan II	ND		ug/kg	1.67	0.558	1	A
Endosulfan sulfate	ND		ug/kg	0.696	0.331	1	A
Methoxychlor	ND		ug/kg	3.13	0.974	1	A
Toxaphene	ND		ug/kg	31.3	8.77	1	A
cis-Chlordane	ND	IP	ug/kg	2.09	0.582	1	B
trans-Chlordane	ND		ug/kg	2.09	0.551	1	A
Chlordane	ND		ug/kg	13.6	5.53	1	A

Project Name: 300 WEST 122ND STREET**Lab Number:** L1936709**Project Number:** 170500202**Report Date:** 08/26/19**SAMPLE RESULTS**

Lab ID: L1936709-04

Date Collected: 08/14/19 00:00

Client ID: DUP02_081419

Date Received: 08/14/19

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	54		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-04
 Client ID: DUP02_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 08/20/19 01:18
 Analyst: DGM
 Percent Solids: 93%
 Methylation Date: 08/18/19 22:20

Extraction Method: EPA 8151A
 Extraction Date: 08/17/19 15:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	178	11.2	1	A
2,4,5-T	ND		ug/kg	178	5.52	1	A
2,4,5-TP (Silvex)	ND		ug/kg	178	4.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	74		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-05
Client ID: EP_FB02_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:50
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 08/16/19 17:52
Analyst: BM

Extraction Method: EPA 3510C
Extraction Date: 08/15/19 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 300 WEST 122ND STREET**Lab Number:** L1936709**Project Number:** 170500202**Report Date:** 08/26/19**SAMPLE RESULTS**

Lab ID: L1936709-05

Date Collected: 08/14/19 14:50

Client ID: EP_FB02_081419

Date Received: 08/14/19

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	107		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-05
 Client ID: EP_FB02_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:50
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 08/20/19 06:44
 Analyst: DGM

Extraction Method: EPA 8151A
 Extraction Date: 08/17/19 23:50

Methylation Date: 08/19/19 01:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	103		30-150	A
DCAA	89		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/16/19 06:51
Analyst: AMC

Extraction Method: EPA 3510C
Extraction Date: 08/14/19 03:34

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05 Batch: WG1272050-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 08/16/19 06:51
 Analyst: AMC

Extraction Method: EPA 3510C
 Extraction Date: 08/14/19 03:34

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05 Batch: WG1272050-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 08/15/19 09:52
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 08/14/19 08:34

Methylation Date: 08/15/19 08:28

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1272157-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	98		30-150	A
DCAA	98		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/15/19 12:33
Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 08/14/19 20:21
Cleanup Method: EPA 3620B
Cleanup Date: 08/15/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1272495-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.639	0.286	A
Alpha-BHC	ND		ug/kg	0.639	0.182	A
Beta-BHC	ND		ug/kg	1.53	0.582	A
Heptachlor	ND		ug/kg	0.767	0.344	A
Aldrin	ND		ug/kg	1.53	0.540	A
Heptachlor epoxide	ND		ug/kg	2.88	0.863	A
Endrin	ND		ug/kg	0.639	0.262	A
Endrin aldehyde	ND		ug/kg	1.92	0.671	A
Endrin ketone	ND		ug/kg	1.53	0.395	A
Dieldrin	ND		ug/kg	0.959	0.480	A
4,4'-DDE	ND		ug/kg	1.53	0.355	A
4,4'-DDD	ND		ug/kg	1.53	0.547	A
4,4'-DDT	ND		ug/kg	2.88	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.513	A
Endosulfan sulfate	ND		ug/kg	0.639	0.304	A
Methoxychlor	ND		ug/kg	2.88	0.895	A
Toxaphene	ND		ug/kg	28.8	8.06	A
cis-Chlordane	ND		ug/kg	1.92	0.534	A
trans-Chlordane	ND		ug/kg	1.92	0.506	A
Chlordane	ND		ug/kg	12.5	5.08	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/15/19 12:33
Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 08/14/19 20:21
Cleanup Method: EPA 3620B
Cleanup Date: 08/15/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1272495-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	B
Decachlorobiphenyl	115		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	82		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 08/19/19 00:03
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 08/16/19 17:02

Methylation Date: 08/17/19 20:53

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 03-04 Batch: WG1273462-1						
2,4-D	ND		ug/kg	163	10.3	A
2,4,5-T	ND		ug/kg	163	5.06	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.34	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	95		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 08/20/19 05:50
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 08/17/19 23:50

Methylation Date: 08/19/19 01:43

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 05 Batch: WG1273737-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	99		30-150	A
DCAA	86		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05 Batch: WG1272050-2 WG1272050-3									
Delta-BHC	73		88		30-150	18		20	A
Lindane	74		88		30-150	18		20	A
Alpha-BHC	73		85		30-150	15		20	A
Beta-BHC	75		90		30-150	19		20	A
Heptachlor	69		84		30-150	19		20	A
Aldrin	64		75		30-150	15		20	A
Heptachlor epoxide	75		89		30-150	18		20	A
Endrin	76		93		30-150	21	Q	20	A
Endrin aldehyde	56		73		30-150	26	Q	20	A
Endrin ketone	73		95		30-150	26	Q	20	A
Dieldrin	74		91		30-150	20		20	A
4,4'-DDE	75		90		30-150	18		20	A
4,4'-DDD	78		96		30-150	21	Q	20	A
4,4'-DDT	78		95		30-150	20		20	A
Endosulfan I	66		80		30-150	19		20	A
Endosulfan II	71		88		30-150	22	Q	20	A
Endosulfan sulfate	66		83		30-150	23	Q	20	A
Methoxychlor	71		88		30-150	22	Q	20	A
cis-Chlordane	71		82		30-150	14		20	A
trans-Chlordane	70		84		30-150	18		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05 Batch: WG1272050-2 WG1272050-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		75		30-150	A
Decachlorobiphenyl	58		75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		69		30-150	B
Decachlorobiphenyl	68		83		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1272157-2 WG1272157-3									
2,4-D	123		99		30-150	22		30	A
2,4,5-T	101		91		30-150	10		30	A
2,4,5-TP (Silvex)	109		97		30-150	12		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	110		97		30-150	A
DCAA	129		117		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1272495-2 WG1272495-3									
Delta-BHC	110		106		30-150	4		30	A
Lindane	105		104		30-150	1		30	A
Alpha-BHC	114		111		30-150	3		30	A
Beta-BHC	102		100		30-150	2		30	A
Heptachlor	116		109		30-150	6		30	A
Aldrin	103		101		30-150	2		30	A
Heptachlor epoxide	107		104		30-150	3		30	A
Endrin	117		113		30-150	3		30	A
Endrin aldehyde	92		90		30-150	2		30	A
Endrin ketone	113		112		30-150	1		30	A
Dieldrin	118		114		30-150	3		30	A
4,4'-DDE	107		104		30-150	3		30	A
4,4'-DDD	117		115		30-150	2		30	A
4,4'-DDT	121		117		30-150	3		30	A
Endosulfan I	98		96		30-150	2		30	A
Endosulfan II	109		106		30-150	3		30	A
Endosulfan sulfate	118		119		30-150	1		30	A
Methoxychlor	108		104		30-150	4		30	A
cis-Chlordane	85		82		30-150	4		30	A
trans-Chlordane	93		88		30-150	6		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1272495-2 WG1272495-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	93		94		30-150	B
Decachlorobiphenyl	95		96		30-150	B
2,4,5,6-Tetrachloro-m-xylene	94		91		30-150	A
Decachlorobiphenyl	75		87		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03-04 Batch: WG1273462-2 WG1273462-3									
2,4-D	83		80		30-150	4		30	A
2,4,5-T	80		81		30-150	1		30	A
2,4,5-TP (Silvex)	85		84		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	82		78		30-150	A
DCAA	91		85		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 05 Batch: WG1273737-2 WG1273737-3									
2,4-D	102		106		30-150	4		25	A
2,4,5-T	104		105		30-150	1		25	A
2,4,5-TP (Silvex)	107		110		30-150	3		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	95		102		30-150	A
DCAA	97		100		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

<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>	<i>Column</i>
Organochlorine Pesticides by GC - Westborough Lab ID: DUP01_081419 Associated sample(s): 01-04 QC Batch ID: WG1272495-4 WG1272495-5 QC Sample: L1936709-03 Client													
Delta-BHC	ND	34.4	29.6	86		28.8	85		30-150	3		50	A
Lindane	ND	34.4	29.9	87		28.8	85		30-150	4		50	A
Alpha-BHC	ND	34.4	29.8	87		29.4	87		30-150	1		50	A
Beta-BHC	ND	34.4	29.1	85		28.5	84		30-150	2		50	A
Aldrin	ND	34.4	26.3	77		25.9	76		30-150	2		50	A
Heptachlor epoxide	ND	34.4	28.4	83		27.0	80		30-150	5		50	B
Endrin	ND	34.4	29.6	86		29.0	86		30-150	2		50	A
Endrin aldehyde	ND	34.4	19.0	55		17.1	50		30-150	11		50	A
Endrin ketone	ND	34.4	25.4	74		23.8	70		30-150	7		50	A
Dieldrin	ND	34.4	29.2	85		28.4	84		30-150	3		50	A
4,4'-DDE	ND	34.4	27.9	81		27.6	81		30-150	1		50	A
4,4'-DDD	ND	34.4	30.5	89		29.8	88		30-150	2		50	A
4,4'-DDT	ND	34.4	30.5	89		30.8	91		30-150	1		50	A
Endosulfan I	ND	34.4	24.9	72		24.5	72		30-150	2		50	A
Endosulfan II	ND	34.4	27.0	79		26.6	78		30-150	1		50	A
Endosulfan sulfate	ND	34.4	20.8	61		19.2	57		30-150	8		50	A
Methoxychlor	ND	34.4	25.2	73		24.8	73		30-150	2		50	A
cis-Chlordane	0.567JIP	34.4	31.3	91		29.7	88		30-150	5		50	B
trans-Chlordane	ND	34.4	29.0	84		28.3	83		30-150	2		50	A

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	76		71		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1272495-4 WG1272495-5 QC Sample: L1936709-03 Client ID: DUP01_081419

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
Decachlorobiphenyl	98		94		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		63		30-150	A
Decachlorobiphenyl	54		53		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

<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>	<i>Column</i>
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1272495-6 WG1272495-7 QC Sample: L1936709-04 Client ID: DUP02_081419													
Delta-BHC	ND	35.1	31.5	90		28.2	83		30-150	11		50	A
Lindane	ND	35.1	34.8	99		32.6	96		30-150	7		50	A
Alpha-BHC	ND	35.1	35.4	101		32.8	96		30-150	8		50	A
Beta-BHC	ND	35.1	35.3	100		32.3	95		30-150	9		50	A
Heptachlor	ND	35.1	32.2	92		30.5	89		30-150	5		50	A
Aldrin	ND	35.1	32.2	92		29.8	87		30-150	8		50	A
Heptachlor epoxide	ND	35.1	35.3	100		31.0	91		30-150	13		50	A
Endrin	ND	35.1	35.7	102		32.6	96		30-150	9		50	A
Endrin aldehyde	ND	35.1	21.2	60		22.2	65		30-150	5		50	A
Endrin ketone	ND	35.1	32.3	92		28.2	83		30-150	14		50	A
Dieldrin	ND	35.1	34.6	99		31.5	92		30-150	9		50	A
4,4'-DDE	0.544JIP	35.1	34.6	99		33.2	97		30-150	4		50	A
4,4'-DDD	ND	35.1	35.8	102		33.1	97		30-150	8		50	A
4,4'-DDT	ND	35.1	41.3	118		37.3	109		30-150	10		50	A
Endosulfan I	ND	35.1	29.9	85		27.9	82		30-150	7		50	A
Endosulfan II	ND	35.1	31.7	90		28.7	84		30-150	10		50	A
Endosulfan sulfate	ND	35.1	24.1	69		20.8	61		30-150	15		50	A
Methoxychlor	ND	35.1	30.1	86		27.8	82		30-150	8		50	A
cis-Chlordane	NDIP	35.1	37.4	106		33.6	99		30-150	11		50	B
trans-Chlordane	ND	35.1	35.5	101		33.5	98		30-150	6		50	A

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1272495-6 WG1272495-7 QC Sample: L1936709-04 Client ID: DUP02_081419												

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		79		30-150	B
Decachlorobiphenyl	119		112		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		71		30-150	A
Decachlorobiphenyl	72		68		30-150	A

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG1273462-4 WG1273462-5 QC Sample: L1936709-03 Client ID: DUP01_081419													
2,4-D	ND	172	153J	89		158J	92		30-150	3		30	A
2,4,5-T	ND	172	148J	86		154J	90		30-150	4		30	A
2,4,5-TP (Silvex)	ND	172	156J	91		161J	94		30-150	3		30	A

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
DCAA	83		85		30-150	A
DCAA	79		82		30-150	B



Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG1273462-6 WG1273462-7 QC Sample: L1936709-04 Client ID: DUP02_081419													
2,4-D	ND	176	163J	93		166J	95		30-150	2		30	A
2,4,5-T	ND	176	159J	90		164J	94		30-150	3		30	A
2,4,5-TP (Silvex)	ND	176	167J	95		172J	99		30-150	3		30	A

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		86		30-150	A
DCAA	78		84		30-150	B



METALS

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-01
 Client ID: EP13_10.5_081419
 Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 12:00
 Date Received: 08/14/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1970		mg/kg	8.07	2.18	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.03	0.306	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Arsenic, Total	0.662	J	mg/kg	0.807	0.168	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Barium, Total	30.1		mg/kg	0.807	0.140	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Beryllium, Total	0.040	J	mg/kg	0.403	0.027	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Cadmium, Total	0.177	J	mg/kg	0.807	0.079	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Calcium, Total	3690		mg/kg	8.07	2.82	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Chromium, Total	5.25		mg/kg	0.807	0.077	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Cobalt, Total	2.53		mg/kg	1.61	0.134	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Copper, Total	9.47		mg/kg	0.807	0.208	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Iron, Total	4580		mg/kg	4.03	0.728	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Lead, Total	25.3		mg/kg	4.03	0.216	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Magnesium, Total	1310		mg/kg	8.07	1.24	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Manganese, Total	106		mg/kg	0.807	0.128	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.067	0.044	1	08/15/19 07:00	08/15/19 11:40	EPA 7471B	1,7471B	GD
Nickel, Total	6.72		mg/kg	2.02	0.195	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Potassium, Total	518		mg/kg	202	11.6	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.61	0.208	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.807	0.228	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Sodium, Total	87.4	J	mg/kg	161	2.54	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.61	0.254	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Vanadium, Total	8.52		mg/kg	0.807	0.164	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
Zinc, Total	19.5		mg/kg	4.03	0.236	2	08/15/19 10:00	08/15/19 12:40	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.2		mg/kg	0.85	0.85	1		08/15/19 12:40	NA	107,-	



Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-02

Date Collected: 08/14/19 14:45

Client ID: EP16_9.5_081419

Date Received: 08/14/19

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1860		mg/kg	8.21	2.22	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.10	0.312	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Arsenic, Total	0.624	J	mg/kg	0.821	0.171	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Barium, Total	22.3		mg/kg	0.821	0.143	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Beryllium, Total	0.041	J	mg/kg	0.410	0.027	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Cadmium, Total	0.181	J	mg/kg	0.821	0.081	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Calcium, Total	4400		mg/kg	8.21	2.87	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Chromium, Total	4.61		mg/kg	0.821	0.079	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Cobalt, Total	2.33		mg/kg	1.64	0.136	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Copper, Total	9.28		mg/kg	0.821	0.212	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Iron, Total	4060		mg/kg	4.10	0.741	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Lead, Total	31.3		mg/kg	4.10	0.220	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Magnesium, Total	1240		mg/kg	8.21	1.26	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Manganese, Total	142		mg/kg	0.821	0.130	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.068	0.044	1	08/15/19 07:00	08/15/19 11:41	EPA 7471B	1,7471B	GD
Nickel, Total	5.97		mg/kg	2.05	0.199	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Potassium, Total	464		mg/kg	205	11.8	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.64	0.212	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.821	0.232	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Sodium, Total	92.5	J	mg/kg	164	2.59	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.64	0.259	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Vanadium, Total	5.64		mg/kg	0.821	0.167	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
Zinc, Total	21.6		mg/kg	4.10	0.240	2	08/15/19 10:00	08/15/19 12:45	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.6		mg/kg	0.86	0.86	1		08/15/19 12:45	NA	107,-	



Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-03

Date Collected: 08/14/19 00:00

Client ID: DUP01_081419

Date Received: 08/14/19

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2000		mg/kg	8.17	2.20	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Antimony, Total	0.400	J	mg/kg	4.08	0.310	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Arsenic, Total	0.850		mg/kg	0.817	0.170	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Barium, Total	25.3		mg/kg	0.817	0.142	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Beryllium, Total	0.122	J	mg/kg	0.408	0.027	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.817	0.080	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Calcium, Total	3450		mg/kg	8.17	2.86	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Chromium, Total	5.91		mg/kg	0.817	0.078	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Cobalt, Total	2.79		mg/kg	1.63	0.136	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Copper, Total	10.2		mg/kg	0.817	0.211	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Iron, Total	5220		mg/kg	4.08	0.738	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Lead, Total	16.8		mg/kg	4.08	0.219	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Magnesium, Total	1680		mg/kg	8.17	1.26	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Manganese, Total	167		mg/kg	0.817	0.130	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Mercury, Total	0.061	J	mg/kg	0.066	0.043	1	08/21/19 04:30	08/21/19 10:44	EPA 7471B	1,7471B	GD
Nickel, Total	7.39		mg/kg	2.04	0.198	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Potassium, Total	366		mg/kg	204	11.8	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.63	0.211	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.817	0.231	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Sodium, Total	64.8	J	mg/kg	163	2.57	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.63	0.257	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Vanadium, Total	7.30		mg/kg	0.817	0.166	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
Zinc, Total	16.6		mg/kg	4.08	0.239	2	08/20/19 19:50	08/21/19 10:29	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.6	J	mg/kg	0.84	0.84	1		08/21/19 10:29	NA	107,-	



Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-04

Date Collected: 08/14/19 00:00

Client ID: DUP02_081419

Date Received: 08/14/19

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2840		mg/kg	8.30	2.24	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Antimony, Total	1.00	J	mg/kg	4.15	0.316	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Arsenic, Total	1.38		mg/kg	0.830	0.173	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Barium, Total	35.9		mg/kg	0.830	0.144	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Beryllium, Total	0.149	J	mg/kg	0.415	0.027	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.830	0.081	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Calcium, Total	6490		mg/kg	8.30	2.91	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Chromium, Total	7.96		mg/kg	0.830	0.080	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Cobalt, Total	3.97		mg/kg	1.66	0.138	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Copper, Total	14.0		mg/kg	0.830	0.214	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Iron, Total	6480		mg/kg	4.15	0.750	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Lead, Total	45.2		mg/kg	4.15	0.222	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Magnesium, Total	1970		mg/kg	8.30	1.28	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Manganese, Total	197		mg/kg	0.830	0.132	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Mercury, Total	0.073		mg/kg	0.067	0.044	1	08/21/19 04:30	08/21/19 10:52	EPA 7471B	1,7471B	GD
Nickel, Total	9.80		mg/kg	2.08	0.201	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Potassium, Total	660		mg/kg	208	12.0	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.66	0.214	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.830	0.235	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Sodium, Total	127	J	mg/kg	166	2.62	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.66	0.262	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Vanadium, Total	9.36		mg/kg	0.830	0.168	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
Zinc, Total	29.4		mg/kg	4.15	0.243	2	08/20/19 19:50	08/21/19 10:45	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.0		mg/kg	0.86	0.86	1		08/21/19 10:45	NA	107,-	



Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-05

Date Collected: 08/14/19 14:50

Client ID: EP_FB02_081419

Date Received: 08/14/19

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Barium, Total	0.00081		mg/l	0.00050	0.00017	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Iron, Total	0.0303	J	mg/l	0.0500	0.0191	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	08/20/19 12:17	08/21/19 14:41	EPA 7470A	1,7470A	GD
Nickel, Total	ND		mg/l	0.00200	0.00055	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	08/19/19 11:53	08/20/19 13:20	EPA 3005A	1,6020B	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		08/20/19 13:20	NA	107,-	



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

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): 01-02 Batch: WG1272525-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	08/15/19 07:00	08/15/19 11:28	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1272713-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Antimony, Total	ND	mg/kg	2.00	0.152	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Barium, Total	ND	mg/kg	0.400	0.070	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Calcium, Total	ND	mg/kg	4.00	1.40	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Chromium, Total	ND	mg/kg	0.400	0.038	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Copper, Total	ND	mg/kg	0.400	0.103	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Iron, Total	0.704	J	mg/kg	2.00	0.361	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Manganese, Total	ND	mg/kg	0.400	0.064	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Nickel, Total	ND	mg/kg	1.00	0.097	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Potassium, Total	ND	mg/kg	100	5.76	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Selenium, Total	ND	mg/kg	0.800	0.103	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Silver, Total	ND	mg/kg	0.400	0.113	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Sodium, Total	7.46	J	mg/kg	80.0	1.26	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC
Thallium, Total	ND	mg/kg	0.800	0.126	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	
Zinc, Total	ND	mg/kg	2.00	0.117	1	08/15/19 10:00	08/15/19 12:13	1,6010D	LC	

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis Batch Quality Control

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): 05 Batch: WG1274011-1									
Aluminum, Total	ND	mg/l	0.0100	0.00327	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Antimony, Total	ND	mg/l	0.00400	0.00042	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Arsenic, Total	ND	mg/l	0.00050	0.00016	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Barium, Total	ND	mg/l	0.00050	0.00017	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Beryllium, Total	ND	mg/l	0.00050	0.00010	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Cadmium, Total	ND	mg/l	0.00020	0.00005	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Calcium, Total	ND	mg/l	0.100	0.0394	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Chromium, Total	ND	mg/l	0.00100	0.00017	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Cobalt, Total	ND	mg/l	0.00050	0.00016	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Copper, Total	ND	mg/l	0.00100	0.00038	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Iron, Total	ND	mg/l	0.0500	0.0191	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Lead, Total	ND	mg/l	0.00100	0.00034	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Magnesium, Total	ND	mg/l	0.0700	0.0242	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Manganese, Total	ND	mg/l	0.00100	0.00044	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Nickel, Total	ND	mg/l	0.00200	0.00055	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Potassium, Total	ND	mg/l	0.100	0.0309	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Selenium, Total	ND	mg/l	0.00500	0.00173	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Silver, Total	ND	mg/l	0.00040	0.00016	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Sodium, Total	ND	mg/l	0.100	0.0293	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Thallium, Total	ND	mg/l	0.00050	0.00014	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Vanadium, Total	ND	mg/l	0.00500	0.00157	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM
Zinc, Total	ND	mg/l	0.01000	0.00341	1	08/19/19 11:53	08/20/19 13:16	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

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): 05 Batch: WG1274528-1									
Mercury, Total	ND	mg/l	0.00020	0.00009	1	08/20/19 12:17	08/21/19 14:25	1,7470A	GD

Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03-04 Batch: WG1274688-1									
Aluminum, Total	ND	mg/kg	4.00	1.08	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Antimony, Total	ND	mg/kg	2.00	0.152	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Arsenic, Total	0.192 J	mg/kg	0.400	0.083	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Barium, Total	ND	mg/kg	0.400	0.070	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Beryllium, Total	ND	mg/kg	0.200	0.013	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Cadmium, Total	ND	mg/kg	0.400	0.039	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Calcium, Total	ND	mg/kg	4.00	1.40	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Chromium, Total	ND	mg/kg	0.400	0.038	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Cobalt, Total	ND	mg/kg	0.800	0.066	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Copper, Total	ND	mg/kg	0.400	0.103	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Iron, Total	0.672 J	mg/kg	2.00	0.361	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Magnesium, Total	ND	mg/kg	4.00	0.616	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Manganese, Total	ND	mg/kg	0.400	0.064	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Nickel, Total	ND	mg/kg	1.00	0.097	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Potassium, Total	ND	mg/kg	100	5.76	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Selenium, Total	ND	mg/kg	0.800	0.103	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Silver, Total	ND	mg/kg	0.400	0.113	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Sodium, Total	4.13 J	mg/kg	80.0	1.26	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Thallium, Total	ND	mg/kg	0.800	0.126	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Vanadium, Total	ND	mg/kg	0.400	0.081	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC
Zinc, Total	ND	mg/kg	2.00	0.117	1	08/20/19 19:50	08/21/19 10:20	1,6010D	LC



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Method Blank Analysis Batch Quality Control

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): 03-04 Batch: WG1274822-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	08/21/19 04:30	08/21/19 10:29	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1272525-2 SRM Lot Number: D105-540								
Mercury, Total	96		-		60-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1272713-2 SRM Lot Number: D105-540					
Aluminum, Total	60	-	51-149	-	
Antimony, Total	160	-	19-249	-	
Arsenic, Total	106	-	70-130	-	
Barium, Total	86	-	75-125	-	
Beryllium, Total	90	-	75-125	-	
Cadmium, Total	97	-	75-125	-	
Calcium, Total	84	-	73-127	-	
Chromium, Total	86	-	70-130	-	
Cobalt, Total	98	-	75-125	-	
Copper, Total	90	-	75-125	-	
Iron, Total	74	-	38-162	-	
Lead, Total	99	-	71-128	-	
Magnesium, Total	77	-	63-137	-	
Manganese, Total	85	-	76-124	-	
Nickel, Total	101	-	70-131	-	
Potassium, Total	81	-	60-140	-	
Selenium, Total	100	-	63-137	-	
Silver, Total	87	-	69-131	-	
Sodium, Total	91	-	37-162	-	
Thallium, Total	95	-	68-132	-	
Vanadium, Total	84	-	65-135	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1272713-2 SRM Lot Number: D105-540					
Zinc, Total	99	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05 Batch: WG1274011-2					
Aluminum, Total	111	-	80-120	-	
Antimony, Total	84	-	80-120	-	
Arsenic, Total	93	-	80-120	-	
Barium, Total	104	-	80-120	-	
Beryllium, Total	103	-	80-120	-	
Cadmium, Total	107	-	80-120	-	
Calcium, Total	109	-	80-120	-	
Chromium, Total	101	-	80-120	-	
Cobalt, Total	101	-	80-120	-	
Copper, Total	96	-	80-120	-	
Iron, Total	108	-	80-120	-	
Lead, Total	105	-	80-120	-	
Magnesium, Total	110	-	80-120	-	
Manganese, Total	101	-	80-120	-	
Nickel, Total	102	-	80-120	-	
Potassium, Total	108	-	80-120	-	
Selenium, Total	112	-	80-120	-	
Silver, Total	98	-	80-120	-	
Sodium, Total	106	-	80-120	-	
Thallium, Total	103	-	80-120	-	
Vanadium, Total	104	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05 Batch: WG1274011-2					
Zinc, Total	108	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 05 Batch: WG1274528-2					
Mercury, Total	90	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-04 Batch: WG1274688-2 SRM Lot Number: D105-540					
Aluminum, Total	55	-	51-149	-	
Antimony, Total	148	-	19-249	-	
Arsenic, Total	103	-	70-130	-	
Barium, Total	84	-	75-125	-	
Beryllium, Total	88	-	75-125	-	
Cadmium, Total	92	-	75-125	-	
Calcium, Total	80	-	73-127	-	
Chromium, Total	88	-	70-130	-	
Cobalt, Total	94	-	75-125	-	
Copper, Total	90	-	75-125	-	
Iron, Total	77	-	38-162	-	
Lead, Total	95	-	71-128	-	
Magnesium, Total	72	-	63-137	-	
Manganese, Total	79	-	76-124	-	
Nickel, Total	95	-	70-131	-	
Potassium, Total	69	-	60-140	-	
Selenium, Total	96	-	63-137	-	
Silver, Total	92	-	69-131	-	
Sodium, Total	90	-	37-162	-	
Thallium, Total	95	-	68-132	-	
Vanadium, Total	87	-	65-135	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1936709

Report Date: 08/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-04 Batch: WG1274688-2 SRM Lot Number: D105-540					
Zinc, Total	94	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 03-04 Batch: WG1274822-2 SRM Lot Number: D105-540					
Mercury, Total	106	-	60-141	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

<u>Parameter</u>	<u>Native Sample</u>	<u>MS Added</u>	<u>MS Found</u>	<u>MS %Recovery</u>	<u>Qual</u>	<u>MSD Found</u>	<u>MSD %Recovery</u>	<u>Qual</u>	<u>Recovery Limits</u>	<u>RPD</u>	<u>Qual</u>	<u>RPD Limits</u>
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1272525-3 QC Sample: L1936700-07 Client ID: MS Sample												
Mercury, Total	ND	0.169	0.188	111		-	-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits		
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1272713-3 WG1272713-4 QC Sample: L1936700-08 Client ID: MS Sample											
Aluminum, Total	11100	214	11100	0	Q	11000	0	Q	75-125	1	20
Antimony, Total	ND	53.6	38.4	72	Q	38.2	73	Q	75-125	1	20
Arsenic, Total	5.76	12.9	15.7	77		15.8	80		75-125	1	20
Barium, Total	109	214	267	74	Q	257	71	Q	75-125	4	20
Beryllium, Total	0.565	5.36	4.70	77		4.54	76		75-125	3	20
Cadmium, Total	0.791	5.46	4.74	72	Q	4.62	72	Q	75-125	3	20
Calcium, Total	3380	1070	4180	75		3980	58	Q	75-125	5	20
Chromium, Total	21.2	21.4	37.2	75		35.0	66	Q	75-125	6	20
Cobalt, Total	11.6	53.6	49.2	70	Q	47.6	69	Q	75-125	3	20
Copper, Total	24.9	26.8	44.7	74	Q	42.8	69	Q	75-125	4	20
Iron, Total	20100	107	19300	0	Q	20100	0	Q	75-125	4	20
Lead, Total	15.5	54.6	52.7	68	Q	50.8	66	Q	75-125	4	20
Magnesium, Total	4090	1070	4630	50	Q	4500	39	Q	75-125	3	20
Manganese, Total	402	53.6	397	0	Q	354	0	Q	75-125	11	20
Nickel, Total	39.7	53.6	80.3	76		74.7	67	Q	75-125	7	20
Potassium, Total	832	1070	1600	72	Q	1590	73	Q	75-125	1	20
Selenium, Total	0.425J	12.9	9.69	75		9.36	75		75-125	3	20
Silver, Total	0.156J	32.2	24.5	76		23.7	76		75-125	3	20
Sodium, Total	66.9J	1070	885	82		856	82		75-125	3	20
Thallium, Total	ND	12.9	7.78	60	Q	7.53	60	Q	75-125	3	20
Vanadium, Total	18.9	53.6	58.7	74	Q	57.3	74	Q	75-125	2	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits		
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1272713-3 WG1272713-4 QC Sample: L1936700-08 Client ID: MS Sample											
Zinc, Total	66.0	53.6	103	69	Q	99.9	65	Q	75-125	3	20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1274011-3 WG1274011-4 QC Sample: L1936991-02 Client ID: MS Sample									
Aluminum, Total	0.0656	2	2.44	119	2.51	122	75-125	3	20
Antimony, Total	0.0019J	0.5	0.5799	116	0.6088	122	75-125	5	20
Arsenic, Total	0.00074	0.12	0.1310	108	0.1370	114	75-125	4	20
Barium, Total	0.1805	2	2.312	106	2.349	108	75-125	2	20
Beryllium, Total	ND	0.05	0.04263	85	0.05393	108	75-125	23	Q 20
Cadmium, Total	ND	0.051	0.05432	106	0.05809	114	75-125	7	20
Calcium, Total	142.	10	176	340	Q 153	110	75-125	14	20
Chromium, Total	0.00369	0.2	0.2189	108	0.2215	109	75-125	1	20
Cobalt, Total	0.0003J	0.5	0.5309	106	0.5301	106	75-125	0	20
Copper, Total	0.0004J	0.25	0.2489	100	0.2552	102	75-125	2	20
Iron, Total	0.105	1	1.33	122	1.33	122	75-125	0	20
Lead, Total	ND	0.51	0.5587	110	0.5821	114	75-125	4	20
Magnesium, Total	27.6	10	46.5	189	Q 42.2	146	Q 75-125	10	20
Manganese, Total	0.01895	0.5	0.5598	108	0.5562	107	75-125	1	20
Nickel, Total	0.0007J	0.5	0.5234	105	0.5249	105	75-125	0	20
Potassium, Total	14.0	10	27.9	139	Q 26.1	121	75-125	7	20
Selenium, Total	ND	0.12	0.0204J	17	Q 0.0184J	15	Q 75-125	10	20
Silver, Total	ND	0.05	0.04970	99	0.05339	107	75-125	7	20
Sodium, Total	942.	10	1130	1880	Q 976	340	Q 75-125	15	20
Thallium, Total	0.0002J	0.12	0.1320	110	0.1375	114	75-125	4	20
Vanadium, Total	0.0039J	0.5	0.5596	112	0.5722	114	75-125	2	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1274011-3 WG1274011-4 QC Sample: L1936991-02 Client ID: MS Sample									
Zinc, Total	0.0110	0.5	0.5503	108	0.5691	112	75-125	3	20
Total Metals - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1274528-3 QC Sample: L1936517-04 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00461	92	-	-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits		
Total Metals - Mansfield Lab Associated sample(s): 03-04 QC Batch ID: WG1274688-3 WG1274688-4 QC Sample: L1936709-03 Client ID: DUP01_081419											
Aluminum, Total	2000	160	2090	56	Q	2250	155	Q	75-125	7	20
Antimony, Total	0.400J	39.9	38.6	97		40.5	100		75-125	5	20
Arsenic, Total	0.850	9.58	11.0	106		11.2	107		75-125	2	20
Barium, Total	25.3	160	192	104		196	106		75-125	2	20
Beryllium, Total	0.122J	3.99	4.06	102		4.10	101		75-125	1	20
Cadmium, Total	ND	4.07	3.90	96		3.95	96		75-125	1	20
Calcium, Total	3450	798	10800	920	Q	6670	398	Q	75-125	47	Q 20
Chromium, Total	5.91	16	20.2	89		21.8	98		75-125	8	20
Cobalt, Total	2.79	39.9	40.3	94		41.1	95		75-125	2	20
Copper, Total	10.2	20	29.4	96		32.3	109		75-125	9	20
Iron, Total	5220	79.8	5170	0	Q	5800	718	Q	75-125	11	20
Lead, Total	16.8	40.7	66.0	121		67.2	122		75-125	2	20
Magnesium, Total	1680	798	3460	223	Q	2680	124		75-125	25	Q 20
Manganese, Total	167	39.9	218	128	Q	240	181	Q	75-125	10	20
Nickel, Total	7.39	39.9	48.9	104		46.0	96		75-125	6	20
Potassium, Total	366	798	1250	111		1340	120		75-125	7	20
Selenium, Total	ND	9.58	9.52	99		9.35	96		75-125	2	20
Silver, Total	ND	24	24.1	101		24.5	101		75-125	2	20
Sodium, Total	64.8J	798	916	115		925	114		75-125	1	20
Thallium, Total	ND	9.58	8.93	93		9.12	94		75-125	2	20
Vanadium, Total	7.30	39.9	47.9	102		50.0	106		75-125	4	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-04 QC Batch ID: WG1274688-3 WG1274688-4 QC Sample: L1936709-03 Client ID: DUP01_081419									
Zinc, Total	16.6	39.9	58.8	106	57.2	100	75-125	3	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-04 QC Batch ID: WG1274688-7 WG1274688-8 QC Sample: L1936709-04 Client ID: DUP02_081419									
Aluminum, Total	2840	168	3270	256	Q 3170	202	Q 75-125	3	20
Antimony, Total	1.00J	41.9	41.9	100	41.0	100	75-125	2	20
Arsenic, Total	1.38	10	11.8	104	11.8	106	75-125	0	20
Barium, Total	35.9	168	211	104	206	104	75-125	2	20
Beryllium, Total	0.149J	4.19	4.29	102	4.11	101	75-125	4	20
Cadmium, Total	ND	4.28	4.15	97	3.91	94	75-125	6	20
Calcium, Total	6490	838	8000	180	Q 9410	358	Q 75-125	16	20
Chromium, Total	7.96	16.8	25.7	106	26.2	112	75-125	2	20
Cobalt, Total	3.97	41.9	43.7	95	42.0	93	75-125	4	20
Copper, Total	14.0	21	34.9	100	35.2	104	75-125	1	20
Iron, Total	6480	83.8	7490	1200	Q 8330	2270	Q 75-125	11	20
Lead, Total	45.2	42.8	86.8	97	90.3	108	75-125	4	20
Magnesium, Total	1970	838	2530	67	Q 3060	134	Q 75-125	19	20
Manganese, Total	197	41.9	216	45	Q 238	100	75-125	10	20
Nickel, Total	9.80	41.9	48.6	92	46.7	90	75-125	4	20
Potassium, Total	660	838	1740	129	Q 1650	121	75-125	5	20
Selenium, Total	ND	10	9.75	97	9.20	94	75-125	6	20
Silver, Total	ND	25.1	25.8	102	24.8	101	75-125	4	20
Sodium, Total	127J	838	1000	119	971	119	75-125	3	20
Thallium, Total	ND	10	9.44	94	9.02	92	75-125	5	20
Vanadium, Total	9.36	41.9	54.5	108	52.7	106	75-125	3	20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits		
Total Metals - Mansfield Lab Associated sample(s): 03-04 QC Batch ID: WG1274688-7 WG1274688-8 QC Sample: L1936709-04 Client ID: DUP02_081419											
Zinc, Total	29.4	41.9	95.7	158	Q	67.2	93	75-125	35	Q	20
Total Metals - Mansfield Lab Associated sample(s): 03-04 QC Batch ID: WG1274822-3 WG1274822-4 QC Sample: L1936709-03 Client ID: DUP01_081419											
Mercury, Total	0.061J	0.132	0.154	117		0.163	123	Q	80-120	6	20
Total Metals - Mansfield Lab Associated sample(s): 03-04 QC Batch ID: WG1274822-5 WG1274822-6 QC Sample: L1936709-04 Client ID: DUP02_081419											
Mercury, Total	0.073	0.135	0.226	113		0.208	100	80-120	8		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1272525-4 QC Sample: L1936700-07 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1274528-4 QC Sample: L1936517-04 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-01
Client ID: EP13_10.5_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 12:00
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.9		%	0.100	NA	1	-	08/15/19 03:45	121,2540G	SH
Cyanide, Total	ND		mg/kg	1.0	0.22	1	08/15/19 05:50	08/15/19 11:18	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.852	0.170	1	08/15/19 01:10	08/15/19 09:25	1,7196A	JT



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-02
Client ID: EP16_9.5_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:45
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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	-	08/15/19 03:45	121,2540G	SH
Cyanide, Total	ND		mg/kg	1.0	0.21	1	08/15/19 05:50	08/15/19 11:21	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.861	0.172	1	08/15/19 01:10	08/15/19 09:25	1,7196A	JT



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-03
Client ID: DUP01_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.1		%	0.100	NA	1	-	08/15/19 13:19	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.96	0.20	1	08/15/19 12:45	08/15/19 15:29	1,9010C/9012B	LH
Chromium, Hexavalent	0.347	J	mg/kg	0.841	0.168	1	08/16/19 00:10	08/17/19 00:30	1,7196A	CW



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-04
Client ID: DUP02_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 00:00
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.2		%	0.100	NA	1	-	08/15/19 13:19	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	08/16/19 06:14	08/16/19 12:30	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.858	0.172	1	08/16/19 00:10	08/17/19 00:30	1,7196A	CW



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1936709-05
Client ID: EP_FB02_081419
Sample Location: MANHATTAN, NY

Date Collected: 08/14/19 14:50
Date Received: 08/14/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/15/19 10:40	08/15/19 14:53	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	08/15/19 02:00	08/15/19 03:23	1,7196A	MA



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

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): 05 Batch: WG1272574-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	08/15/19 02:00	08/15/19 03:20	1,7196A	MA
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1272608-8										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	08/15/19 01:10	08/15/19 09:25	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1272629-1										
Cyanide, Total	ND		mg/kg	0.92	0.19	1	08/15/19 05:50	08/15/19 11:09	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1272727-1										
Cyanide, Total	ND		mg/kg	0.86	0.18	1	08/15/19 12:45	08/15/19 14:57	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1272741-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/15/19 10:40	08/15/19 14:20	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1273014-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	08/16/19 00:10	08/17/19 00:30	1,7196A	CW
General Chemistry - Westborough Lab for sample(s): 04 Batch: WG1273016-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	08/16/19 00:10	08/17/19 00:30	1,7196A	CW
General Chemistry - Westborough Lab for sample(s): 04 Batch: WG1273149-1										
Cyanide, Total	ND		mg/kg	0.96	0.20	1	08/16/19 06:14	08/16/19 12:22	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1272574-2								
Chromium, Hexavalent	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1272608-9								
Chromium, Hexavalent	93		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1272629-2 WG1272629-3								
Cyanide, Total	78	Q	41	Q	80-120	67	Q	35
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1272727-2 WG1272727-3								
Cyanide, Total	68	Q	70	Q	80-120	11		35
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1272741-2 WG1272741-3								
Cyanide, Total	90		91		85-115	1		20
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1273014-2								
Chromium, Hexavalent	107		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 04 Batch: WG1273016-2								
Chromium, Hexavalent	107		-		80-120	-		20

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 04 Batch: WG1273149-2 WG1273149-3					
Cyanide, Total	89	75	Q 80-120	16	35

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1272574-4 QC Sample: L1936709-05 Client ID: EP_FB02_081419												
Chromium, Hexavalent	ND	0.1	0.099	99	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1272608-11 QC Sample: L1936709-01 Client ID: EP13_10.5_081419												
Chromium, Hexavalent	ND	788	951	121	-	-	-	-	75-125	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1272629-4 WG1272629-5 QC Sample: L1936709-01 Client ID: EP13_10.5_081419												
Cyanide, Total	ND	10	10	95	10	97	97	75-125	0	0	35	35
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1272727-4 WG1272727-5 QC Sample: L1936709-03 Client ID: DUP01_081419												
Cyanide, Total	ND	10	9.7	93	9.0	94	94	75-125	7	7	35	35
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1272741-4 WG1272741-5 QC Sample: L1936464-01 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.193	96	0.190	95	95	80-120	2	2	20	20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1273014-4 WG1273014-5 QC Sample: L1936709-03 Client ID: DUP01_081419												
Chromium, Hexavalent	0.347J	1510	1660	110	1850	112	112	75-125	11	11	20	20
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1273016-4 WG1273016-5 QC Sample: L1936709-04 Client ID: DUP02_081419												
Chromium, Hexavalent	ND	1240	1040	84	1070	88	88	75-125	3	3	20	20
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1273149-4 WG1273149-5 QC Sample: L1936709-04 Client ID: DUP02_081419												
Cyanide, Total	ND	9.8	9.8	100	10	98	98	75-125	2	2	35	35

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
Report Date: 08/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1272574-3 QC Sample: L1936709-05 Client ID: EP_FB02_081419						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1272581-1 QC Sample: L1936696-05 Client ID: DUP Sample						
Solids, Total	88.8	88.5	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1272608-13 QC Sample: L1936709-01 Client ID: EP13_10.5_081419						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG1272784-1 QC Sample: L1936709-03 Client ID: DUP01_081419						
Solids, Total	95.1	95.0	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1273014-7 QC Sample: L1936709-03 Client ID: DUP01_081419						
Chromium, Hexavalent	0.347J	0.400J	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1273016-7 QC Sample: L1936709-04 Client ID: DUP02_081419						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Serial_No:08261918:21
Lab Number: L1936709
Report Date: 08/26/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1936709-01A	Vial MeOH preserved	A	NA		2.0	Y	Absent		NYTCL-8260HLW(14)
L1936709-01B	Vial water preserved	A	NA		2.0	Y	Absent	14-AUG-19 23:51	NYTCL-8260HLW(14)
L1936709-01C	Vial water preserved	A	NA		2.0	Y	Absent	14-AUG-19 23:51	NYTCL-8260HLW(14)
L1936709-01D	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L1936709-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.0	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)
L1936709-01F	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		HEXCR-7196(30)
L1936709-01G	Glass 500ml/16oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1936709-02A	Vial MeOH preserved	A	NA		2.0	Y	Absent		NYTCL-8260HLW(14)
L1936709-02B	Vial water preserved	A	NA		2.0	Y	Absent	14-AUG-19 23:51	NYTCL-8260HLW(14)
L1936709-02C	Vial water preserved	A	NA		2.0	Y	Absent	14-AUG-19 23:51	NYTCL-8260HLW(14)
L1936709-02D	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L1936709-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.0	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)
L1936709-02F	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		HEXCR-7196(30)
L1936709-02G	Glass 500ml/16oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1936709-03A	Vial MeOH preserved	A	NA		2.0	Y	Absent		NYTCL-8260HLW(14)
L1936709-03A1	Vial MeOH preserved	A	NA		2.0	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1936709-03A2	Vial MeOH preserved	A	NA		2.0	Y	Absent		NYTCL-8260HLW(14)
L1936709-03B	Vial water preserved	A	NA		2.0	Y	Absent	14-AUG-19 23:51	NYTCL-8260HLW(14)
L1936709-03B1	Vial water preserved	A	NA		2.0	Y	Absent	14-AUG-19 23:51	NYTCL-8260HLW(14)
L1936709-03B2	Vial water preserved	A	NA		2.0	Y	Absent	14-AUG-19 23:51	NYTCL-8260HLW(14)
L1936709-03C	Vial water preserved	A	NA		2.0	Y	Absent	14-AUG-19 23:51	NYTCL-8260HLW(14)
L1936709-03C1	Vial water preserved	A	NA		2.0	Y	Absent	14-AUG-19 23:51	NYTCL-8260HLW(14)
L1936709-03C2	Vial water preserved	A	NA		2.0	Y	Absent	14-AUG-19 23:51	NYTCL-8260HLW(14)
L1936709-03D	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L1936709-03E	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L1936709-03F	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L1936709-03G	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.0	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)
L1936709-03H	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.0	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)
L1936709-03I	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.0	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)
L1936709-03J	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		HEXCR-7196(30)
L1936709-03K	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		HEXCR-7196(30)
L1936709-03L	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		HEXCR-7196(30)
L1936709-03M	Glass 500ml/16oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1936709-03N	Glass 500ml/16oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1936709-03O	Glass 500ml/16oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1936709-04A	Vial MeOH preserved	A	NA		2.0	Y	Absent		NYTCL-8260HLW(14)

Project Name: 300 WEST 122ND STREET

Lab Number: L1936709

Project Number: 170500202

Report Date: 08/26/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1936709-04A1	Vial MeOH preserved	A	NA		2.0	Y	Absent		NYTCL-8260HLW(14)
L1936709-04A2	Vial MeOH preserved	A	NA		2.0	Y	Absent		NYTCL-8260HLW(14)
L1936709-04B	Vial water preserved	A	NA		2.0	Y	Absent	14-AUG-19 23:51	NYTCL-8260HLW(14)
L1936709-04B1	Vial water preserved	A	NA		2.0	Y	Absent	14-AUG-19 23:51	NYTCL-8260HLW(14)
L1936709-04B2	Vial water preserved	A	NA		2.0	Y	Absent	14-AUG-19 23:51	NYTCL-8260HLW(14)
L1936709-04C	Vial water preserved	A	NA		2.0	Y	Absent	14-AUG-19 23:51	NYTCL-8260HLW(14)
L1936709-04C1	Vial water preserved	A	NA		2.0	Y	Absent	14-AUG-19 23:51	NYTCL-8260HLW(14)
L1936709-04C2	Vial water preserved	A	NA		2.0	Y	Absent	14-AUG-19 23:51	NYTCL-8260HLW(14)
L1936709-04D	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L1936709-04E	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L1936709-04F	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L1936709-04G	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.0	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)
L1936709-04H	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.0	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)
L1936709-04I	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.0	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)
L1936709-04J	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		HEXCR-7196(30)
L1936709-04K	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		HEXCR-7196(30)
L1936709-04L	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		HEXCR-7196(30)
L1936709-04M	Glass 500ml/16oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1936709-04N	Glass 500ml/16oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1936709-04O	Glass 500ml/16oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Serial_No:08261918:21
Lab Number: L1936709
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1936709-05A	Vial HCl preserved	B	NA		3.2	Y	Absent		NYTCL-8260(14)
L1936709-05B	Vial HCl preserved	B	NA		3.2	Y	Absent		NYTCL-8260(14)
L1936709-05C	Vial HCl preserved	B	NA		3.2	Y	Absent		NYTCL-8260(14)
L1936709-05D	Amber 120ml unpreserved	B	7	7	3.2	Y	Absent		NYTCL-8082-LVI(7)
L1936709-05E	Amber 120ml unpreserved	B	7	7	3.2	Y	Absent		NYTCL-8082-LVI(7)
L1936709-05F	Amber 120ml unpreserved	B	7	7	3.2	Y	Absent		NYTCL-8081(7)
L1936709-05G	Amber 120ml unpreserved	B	7	7	3.2	Y	Absent		NYTCL-8081(7)
L1936709-05H	Plastic 250ml HNO3 preserved	B	<2	<2	3.2	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1936709-05I	Amber 250ml unpreserved	B	7	7	3.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1936709-05J	Amber 250ml unpreserved	B	7	7	3.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1936709-05K	Plastic 250ml NaOH preserved	B	>12	>12	3.2	Y	Absent		TCN-9010(14)
L1936709-05L	Plastic 500ml unpreserved	B	7	7	3.2	Y	Absent		HEXCR-7196(1)
L1936709-05M	Amber 1000ml unpreserved	B	7	7	3.2	Y	Absent		HERB-APA(7)
L1936709-05N	Amber 1000ml unpreserved	B	7	7	3.2	Y	Absent		HERB-APA(7)

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1936709
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GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
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- 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

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when using acetone as a solvent.
- 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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK 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 1 of 2		Date Rec'd in Lab 8/14/19		ALPHA Job # L1936709								
		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: 300 WEST 122ND STREET Project Location: MANHATTAN, NY		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #								
Client Information Client: LANGAN ENG Address: 300 W 31ST STREET NEW YORK, NY Phone: 212 479 5400 Fax: Email: jleung@langan.com		Project # 170500202 (Use Project name as Project #) <input type="checkbox"/> Project Manager: JULIA LEUNG ALPHAQuote #: Turn-Around Time Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days:				Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:										
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: <div style="font-size: 2em; text-align: center; margin: 10px 0;">24-hour TAT</div> Please specify Metals or TAL.						ANALYSIS				Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		Total Bottles						
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix Sampler's Initials		VOCs	SVOCs	PCBs	Particulates/Heavy Metals		TAL Metals	Tri/Hex Chrom	Total Cyanide	Sample Specific Comments		
36709 -01		EP13-10.56-081419		8/14/19 1200		S PS		X	X	X	X	X	X	X	7			
-02		EP16-9.5-081419		↓ 1445		↓ ↓		X	X	X	X	X	X	X	7			
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		V	A	A	A	A	A	A	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: <i>Patricia...</i>		Date/Time: 8/14/19 1525		Received By: <i>Paul...</i>		Date/Time: 8/14/19 1630										
		Relinquished By: <i>Paul...</i>		Date/Time: 8/14/19 2055		Received By: <i>Paul...</i>		Date/Time: 8/14/19 2051										

 NEW YORK 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	Date Rec'd in Lab	ALPHA Job #									
		2 of 2	8/14/19	L1936709									
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		Deliverables	Billing Information								
Client Information		Project Name: 300 WEST 121ND STREET		<input type="checkbox"/> ASP-A	<input checked="" type="checkbox"/> KASP-B								
Client: LANGAN ENG		Project Location: MANHATTAN, NY		<input type="checkbox"/> EQUIS (1 File)	<input type="checkbox"/> EQUIS (4 File)								
Address: 360 W 81ST ST		Project # 170500202		<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Same as Client Info								
NEW YORK, NY		(Use Project name as Project #) <input type="checkbox"/>		Regulatory Requirement									
Phone: 212 479 5400		Project Manager: JULIA LEUNG		<input type="checkbox"/> NY TOGS	<input type="checkbox"/> NY Part 375								
AlphaQuote #:		Turn-Around Time		<input type="checkbox"/> AWQ Standards	<input type="checkbox"/> NY CP-51								
Fax:		Standard <input checked="" type="checkbox"/>		<input type="checkbox"/> NY Restricted Use	<input type="checkbox"/> Other								
Email: jleung@langan.com		Rush (only if pre approved) <input type="checkbox"/>		<input type="checkbox"/> NY Unrestricted Use	<input type="checkbox"/> NYC Sewer Discharge								
Due Date:		# of Days:		Disposal Site Information									
These samples have been previously analyzed by Alpha <input type="checkbox"/>		Other project specific requirements/comments:		Please identify below location of applicable disposal facilities.									
Please specify Metals or TAL.		ANALYSIS		Disposal Facility:									
				<input type="checkbox"/> NJ <input type="checkbox"/> NY									
				<input type="checkbox"/> Other:									
				Sample Filtration									
				<input type="checkbox"/> Done									
				<input type="checkbox"/> Lab to do									
				<input type="checkbox"/> Lab to do									
				(Please Specify below)									
				Sample Specific Comments									
				Total Bottle									
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs	PCBS	Pesticides/Herbicides	TAL Metals	Tri/Hor Chlorine	Total Cyanide	
36709-03	MS01-081419			S	PS	X	X	X	X	X	X	X	
-03	MSD01-081419												
-03	DUP01-081419												
-04	MS02-081419												
-04	MSD02-081419												
-04	DUP02-081419												
-05	EP_FB02-081419	8/14/19	1450	AQ	PS								
Preservative Code:		Container Code		Westboro: Certification No: MA935		Container Type		V A A A A A A		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.)			
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		P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Mansfield: Certification No: MA015		Preservative		B A A A A A A					
Relinquished By:		Date/Time		Received By:		Date/Time							
[Signature]		8/14/19 1525		[Signature]		8/14/19 1525							
[Signature]		8/14/19 2045		[Signature]		8/14/19 2045							



ANALYTICAL REPORT

Lab Number:	L1918070
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND STREET
Project Number:	170500202
Report Date:	05/02/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1918070-01	EP14_E_11.5_050119	SOIL	NY, NY	05/01/19 13:15	05/01/19
L1918070-02	EP14_10.5_050119	SOIL	NY, NY	05/01/19 13:20	05/01/19
L1918070-03	EP14_N_11.5_050119	SOIL	NY, NY	05/01/19 13:25	05/01/19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

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.

Total Metals


L1918070-01, -02, and -03: 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.

Cyanide, Total

The WG1232687-2/-3 LCS/LCSD recoveries (75%/39%), associated with L1918070-01 through -03, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. The LCS/LCSD RPD (68%) is above the acceptance criteria.

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: 05/02/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-01
 Client ID: EP14_E_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:15
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 05/02/19 09:08
 Analyst: JC
 Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.83	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.8	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.20	1
Benzene	ND		ug/kg	0.59	0.20	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.69	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-01
 Client ID: EP14_E_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:15
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	26		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.77	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-01
 Client ID: EP14_E_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:15
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	95	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-02
 Client ID: EP14_10.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:20
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 05/02/19 09:34
 Analyst: JC
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 300 WEST 122ND STREET**Lab Number:** L1918070**Project Number:** 170500202**Report Date:** 05/02/19**SAMPLE RESULTS**

Lab ID: L1918070-02
 Client ID: EP14_10.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:20
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	15		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.78	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-02
 Client ID: EP14_10.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:20
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	96	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	97		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-03
 Client ID: EP14_N_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 05/02/19 10:00
 Analyst: JC
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.6	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.66	0.26	1
Chlorobenzene	ND		ug/kg	0.66	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.91	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	0.22	1
Bromodichloromethane	ND		ug/kg	0.66	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.66	0.21	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.22	1
Benzene	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.71	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.76	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.59	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 300 WEST 122ND STREET

Lab Number: L1918070

Project Number: 170500202

Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-03
 Client ID: EP14_N_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.73	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	120		ug/kg	13	6.3	1
Carbon disulfide	ND		ug/kg	13	6.0	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.17	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.2	0.85	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-03
Client ID: EP14_N_11.5_050119
Sample Location: NY, NY

Date Collected: 05/01/19 13:25
Date Received: 05/01/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
1,4-Dioxane	ND		ug/kg	100	46.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.50	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.6	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	97		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/19 08:42
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1232819-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/19 08:42
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1232819-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/19 08:42
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1232819-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1918070

Report Date: 05/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1232819-3 WG1232819-4								
Methylene chloride	96		96		70-130	0		30
1,1-Dichloroethane	102		104		70-130	2		30
Chloroform	93		92		70-130	1		30
Carbon tetrachloride	85		86		70-130	1		30
1,2-Dichloropropane	102		106		70-130	4		30
Dibromochloromethane	86		88		70-130	2		30
1,1,2-Trichloroethane	93		95		70-130	2		30
Tetrachloroethene	82		85		70-130	4		30
Chlorobenzene	85		86		70-130	1		30
Trichlorofluoromethane	73		73		70-139	0		30
1,2-Dichloroethane	99		102		70-130	3		30
1,1,1-Trichloroethane	87		88		70-130	1		30
Bromodichloromethane	93		96		70-130	3		30
trans-1,3-Dichloropropene	92		95		70-130	3		30
cis-1,3-Dichloropropene	96		100		70-130	4		30
1,1-Dichloropropene	93		94		70-130	1		30
Bromoform	82		81		70-130	1		30
1,1,2,2-Tetrachloroethane	88		89		70-130	1		30
Benzene	95		96		70-130	1		30
Toluene	86		87		70-130	1		30
Ethylbenzene	85		86		70-130	1		30
Chloromethane	116		117		52-130	1		30
Bromomethane	75		77		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1918070

Project Number: 170500202

Report Date: 05/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1232819-3 WG1232819-4								
Vinyl chloride	95		95		67-130	0		30
Chloroethane	82		83		50-151	1		30
1,1-Dichloroethene	93		94		65-135	1		30
trans-1,2-Dichloroethene	92		93		70-130	1		30
Trichloroethene	91		90		70-130	1		30
1,2-Dichlorobenzene	84		86		70-130	2		30
1,3-Dichlorobenzene	83		84		70-130	1		30
1,4-Dichlorobenzene	84		84		70-130	0		30
Methyl tert butyl ether	94		97		66-130	3		30
p/m-Xylene	85		86		70-130	1		30
o-Xylene	84		84		70-130	0		30
cis-1,2-Dichloroethene	91		91		70-130	0		30
Dibromomethane	94		96		70-130	2		30
Styrene	84		86		70-130	2		30
Dichlorodifluoromethane	87		85		30-146	2		30
Acetone	116		115		54-140	1		30
Carbon disulfide	93		94		59-130	1		30
2-Butanone	96		99		70-130	3		30
Vinyl acetate	111		113		70-130	2		30
4-Methyl-2-pentanone	96		96		70-130	0		30
1,2,3-Trichloropropane	89		89		68-130	0		30
2-Hexanone	88		92		70-130	4		30
Bromochloromethane	96		97		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1918070

Project Number: 170500202

Report Date: 05/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1232819-3 WG1232819-4								
2,2-Dichloropropane	90		90		70-130	0		30
1,2-Dibromoethane	90		90		70-130	0		30
1,3-Dichloropropane	93		94		69-130	1		30
1,1,1,2-Tetrachloroethane	84		86		70-130	2		30
Bromobenzene	80		83		70-130	4		30
n-Butylbenzene	85		83		70-130	2		30
sec-Butylbenzene	82		82		70-130	0		30
tert-Butylbenzene	80		81		70-130	1		30
o-Chlorotoluene	85		87		70-130	2		30
p-Chlorotoluene	85		85		70-130	0		30
1,2-Dibromo-3-chloropropane	79		81		68-130	3		30
Hexachlorobutadiene	80		79		67-130	1		30
Isopropylbenzene	81		81		70-130	0		30
p-Isopropyltoluene	81		82		70-130	1		30
Naphthalene	77		77		70-130	0		30
Acrylonitrile	109		114		70-130	4		30
n-Propylbenzene	83		84		70-130	1		30
1,2,3-Trichlorobenzene	82		82		70-130	0		30
1,2,4-Trichlorobenzene	81		81		70-130	0		30
1,3,5-Trimethylbenzene	84		84		70-130	0		30
1,2,4-Trimethylbenzene	84		84		70-130	0		30
1,4-Dioxane	100		104		65-136	4		30
p-Diethylbenzene	83		82		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1918070

Report Date: 05/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1232819-3 WG1232819-4								
p-Ethyltoluene	84		85		70-130	1		30
1,2,4,5-Tetramethylbenzene	79		79		70-130	0		30
Ethyl ether	102		105		67-130	3		30
trans-1,4-Dichloro-2-butene	93		101		70-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		104		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	102		100		70-130
Dibromofluoromethane	99		99		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-01
 Client ID: EP14_E_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:15
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/02/19 16:42
 Analyst: JG
 Percent Solids: 96%

Extraction Method: EPA 3546
 Extraction Date: 05/02/19 03:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-01
 Client ID: EP14_E_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:15
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	56	J	ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	830	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-01
 Client ID: EP14_E_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:15
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	90		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-02
 Client ID: EP14_10.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:20
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/02/19 17:07
 Analyst: JG
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 05/02/19 03:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-02
 Client ID: EP14_10.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:20
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	48	J	ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	830	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND STREET**Lab Number:** L1918070**Project Number:** 170500202**Report Date:** 05/02/19**SAMPLE RESULTS**

Lab ID: L1918070-02

Date Collected: 05/01/19 13:20

Client ID: EP14_10.5_050119

Date Received: 05/01/19

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	92		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-03
 Client ID: EP14_N_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/02/19 17:33
 Analyst: JG
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 05/02/19 03:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	180		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-03
 Client ID: EP14_N_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	43	J	ug/kg	170	36.	1
Benzo(a)anthracene	110		ug/kg	100	20.	1
Benzo(a)pyrene	100	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	140		ug/kg	100	29.	1
Benzo(k)fluoranthene	49	J	ug/kg	100	28.	1
Chrysene	110		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	72	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	83	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	75	J	ug/kg	140	24.	1
Pyrene	170		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	830	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-03
 Client ID: EP14_N_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	93		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	100		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 05/02/19 15:25
 Analyst: JG

Extraction Method: EPA 3546
 Extraction Date: 05/01/19 06:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1232213-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/02/19 15:25
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 05/01/19 06:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1232213-1					
Dimethyl phthalate	93	J	ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 05/02/19 15:25
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 05/01/19 06:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1232213-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	84		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1918070

Project Number: 170500202

Report Date: 05/02/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1232213-2 WG1232213-3								
Acenaphthene	87		83		31-137	5		50
1,2,4-Trichlorobenzene	84		84		38-107	0		50
Hexachlorobenzene	86		83		40-140	4		50
Bis(2-chloroethyl)ether	80		79		40-140	1		50
2-Chloronaphthalene	90		88		40-140	2		50
1,2-Dichlorobenzene	79		79		40-140	0		50
1,3-Dichlorobenzene	75		75		40-140	0		50
1,4-Dichlorobenzene	78		78		28-104	0		50
3,3'-Dichlorobenzidine	66		60		40-140	10		50
2,4-Dinitrotoluene	97		92		40-132	5		50
2,6-Dinitrotoluene	99		96		40-140	3		50
Fluoranthene	89		87		40-140	2		50
4-Chlorophenyl phenyl ether	87		83		40-140	5		50
4-Bromophenyl phenyl ether	90		86		40-140	5		50
Bis(2-chloroisopropyl)ether	87		87		40-140	0		50
Bis(2-chloroethoxy)methane	93		91		40-117	2		50
Hexachlorobutadiene	75		75		40-140	0		50
Hexachlorocyclopentadiene	83		81		40-140	2		50
Hexachloroethane	78		79		40-140	1		50
Isophorone	93		92		40-140	1		50
Naphthalene	83		83		40-140	0		50
Nitrobenzene	89		88		40-140	1		50
NDPA/DPA	91		87		36-157	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1918070

Project Number: 170500202

Report Date: 05/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1232213-2 WG1232213-3								
n-Nitrosodi-n-propylamine	91		89		32-121	2		50
Bis(2-ethylhexyl)phthalate	92		89		40-140	3		50
Butyl benzyl phthalate	92		89		40-140	3		50
Di-n-butylphthalate	90		88		40-140	2		50
Di-n-octylphthalate	95		91		40-140	4		50
Diethyl phthalate	92		87		40-140	6		50
Dimethyl phthalate	96		93		40-140	3		50
Benzo(a)anthracene	88		85		40-140	3		50
Benzo(a)pyrene	87		84		40-140	4		50
Benzo(b)fluoranthene	87		84		40-140	4		50
Benzo(k)fluoranthene	86		83		40-140	4		50
Chrysene	86		83		40-140	4		50
Acenaphthylene	94		92		40-140	2		50
Anthracene	89		86		40-140	3		50
Benzo(ghi)perylene	85		83		40-140	2		50
Fluorene	88		85		40-140	3		50
Phenanthrene	86		84		40-140	2		50
Dibenzo(a,h)anthracene	86		83		40-140	4		50
Indeno(1,2,3-cd)pyrene	87		84		40-140	4		50
Pyrene	89		86		35-142	3		50
Biphenyl	94		92		54-104	2		50
4-Chloroaniline	62		60		40-140	3		50
2-Nitroaniline	101		98		47-134	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1918070

Project Number: 170500202

Report Date: 05/02/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1232213-2 WG1232213-3								
3-Nitroaniline	65		57		26-129	13		50
4-Nitroaniline	96		90		41-125	6		50
Dibenzofuran	88		85		40-140	3		50
2-Methylnaphthalene	86		86		40-140	0		50
1,2,4,5-Tetrachlorobenzene	90		89		40-117	1		50
Acetophenone	92		90		14-144	2		50
2,4,6-Trichlorophenol	98		95		30-130	3		50
p-Chloro-m-cresol	95		92		26-103	3		50
2-Chlorophenol	88		87		25-102	1		50
2,4-Dichlorophenol	99		97		30-130	2		50
2,4-Dimethylphenol	96		95		30-130	1		50
2-Nitrophenol	97		97		30-130	0		50
4-Nitrophenol	101		100		11-114	1		50
2,4-Dinitrophenol	81		80		4-130	1		50
4,6-Dinitro-o-cresol	101		97		10-130	4		50
Pentachlorophenol	82		79		17-109	4		50
Phenol	83		84		26-90	1		50
2-Methylphenol	93		90		30-130.	3		50
3-Methylphenol/4-Methylphenol	95		94		30-130	1		50
2,4,5-Trichlorophenol	96		95		30-130	1		50
Benzoic Acid	74		73		10-110	1		50
Benzyl Alcohol	91		89		40-140	2		50
Carbazole	90		87		54-128	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1918070

Project Number: 170500202

Report Date: 05/02/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1232213-2 WG1232213-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	88		86		25-120
Phenol-d6	92		88		10-120
Nitrobenzene-d5	95		92		23-120
2-Fluorobiphenyl	93		90		30-120
2,4,6-Tribromophenol	95		92		10-136
4-Terphenyl-d14	93		89		18-120

PCBS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-01
 Client ID: EP14_E_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:15
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 05/02/19 14:17
 Analyst: WR
 Percent Solids: 96%

Extraction Method: EPA 3546
 Extraction Date: 05/02/19 03:14
 Cleanup Method: EPA 3665A
 Cleanup Date: 05/02/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 05/02/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	32.8	2.92	1	A
Aroclor 1221	ND		ug/kg	32.8	3.29	1	A
Aroclor 1232	ND		ug/kg	32.8	6.96	1	A
Aroclor 1242	ND		ug/kg	32.8	4.43	1	A
Aroclor 1248	ND		ug/kg	32.8	4.93	1	A
Aroclor 1254	ND		ug/kg	32.8	3.59	1	A
Aroclor 1260	ND		ug/kg	32.8	6.07	1	A
Aroclor 1262	ND		ug/kg	32.8	4.17	1	A
Aroclor 1268	ND		ug/kg	32.8	3.40	1	A
PCBs, Total	ND		ug/kg	32.8	2.92	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-02
 Client ID: EP14_10.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:20
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 05/02/19 14:30
 Analyst: WR
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 05/02/19 03:14
 Cleanup Method: EPA 3665A
 Cleanup Date: 05/02/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 05/02/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.9	3.10	1	A
Aroclor 1221	ND		ug/kg	34.9	3.49	1	A
Aroclor 1232	ND		ug/kg	34.9	7.39	1	A
Aroclor 1242	ND		ug/kg	34.9	4.70	1	A
Aroclor 1248	ND		ug/kg	34.9	5.23	1	A
Aroclor 1254	ND		ug/kg	34.9	3.81	1	A
Aroclor 1260	ND		ug/kg	34.9	6.44	1	A
Aroclor 1262	ND		ug/kg	34.9	4.43	1	A
Aroclor 1268	ND		ug/kg	34.9	3.61	1	A
PCBs, Total	ND		ug/kg	34.9	3.10	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-03
 Client ID: EP14_N_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 05/02/19 14:42
 Analyst: WR
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 05/02/19 03:14
 Cleanup Method: EPA 3665A
 Cleanup Date: 05/02/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 05/02/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.0	3.11	1	A
Aroclor 1221	ND		ug/kg	35.0	3.51	1	A
Aroclor 1232	ND		ug/kg	35.0	7.42	1	A
Aroclor 1242	ND		ug/kg	35.0	4.72	1	A
Aroclor 1248	ND		ug/kg	35.0	5.25	1	B
Aroclor 1254	ND		ug/kg	35.0	3.83	1	A
Aroclor 1260	ND		ug/kg	35.0	6.47	1	A
Aroclor 1262	ND		ug/kg	35.0	4.45	1	A
Aroclor 1268	ND		ug/kg	35.0	3.63	1	A
PCBs, Total	ND		ug/kg	35.0	3.11	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 05/02/19 13:38
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 05/01/19 05:38
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/19
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG1232208-1						
Aroclor 1016	ND		ug/kg	31.7	2.82	A
Aroclor 1221	ND		ug/kg	31.7	3.18	A
Aroclor 1232	ND		ug/kg	31.7	6.72	A
Aroclor 1242	ND		ug/kg	31.7	4.28	A
Aroclor 1248	ND		ug/kg	31.7	4.76	A
Aroclor 1254	ND		ug/kg	31.7	3.47	A
Aroclor 1260	ND		ug/kg	31.7	5.86	A
Aroclor 1262	ND		ug/kg	31.7	4.03	A
Aroclor 1268	ND		ug/kg	31.7	3.29	A
PCBs, Total	ND		ug/kg	31.7	2.82	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	73		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1232208-2 WG1232208-3									
Aroclor 1016	69		95		40-140	32		50	A
Aroclor 1260	66		93		40-140	34		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		80		30-150	A
Decachlorobiphenyl	60		82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		84		30-150	B
Decachlorobiphenyl	65		90		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-01
 Client ID: EP14_E_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:15
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 05/02/19 15:07
 Analyst: KEG
 Percent Solids: 96%

Extraction Method: EPA 3546
 Extraction Date: 05/02/19 03:06
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/02/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.59	0.312	1	A
Lindane	ND		ug/kg	0.664	0.297	1	A
Alpha-BHC	ND		ug/kg	0.664	0.189	1	A
Beta-BHC	ND		ug/kg	1.59	0.604	1	A
Heptachlor	ND		ug/kg	0.797	0.357	1	A
Aldrin	ND		ug/kg	1.59	0.561	1	A
Heptachlor epoxide	ND		ug/kg	2.99	0.896	1	A
Endrin	ND		ug/kg	0.664	0.272	1	A
Endrin aldehyde	ND		ug/kg	1.99	0.697	1	A
Endrin ketone	ND		ug/kg	1.59	0.410	1	A
Dieldrin	ND		ug/kg	0.996	0.498	1	A
4,4'-DDE	ND		ug/kg	1.59	0.368	1	A
4,4'-DDD	ND		ug/kg	1.59	0.568	1	A
4,4'-DDT	ND		ug/kg	2.99	1.28	1	A
Endosulfan I	ND		ug/kg	1.59	0.376	1	A
Endosulfan II	ND		ug/kg	1.59	0.533	1	A
Endosulfan sulfate	ND		ug/kg	0.664	0.316	1	A
Methoxychlor	ND		ug/kg	2.99	0.930	1	A
Toxaphene	ND		ug/kg	29.9	8.37	1	A
cis-Chlordane	ND		ug/kg	1.99	0.555	1	A
trans-Chlordane	ND		ug/kg	1.99	0.526	1	A
Chlordane	ND		ug/kg	13.0	5.28	1	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-01
 Client ID: EP14_E_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:15
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	106		30-150	B
2,4,5,6-Tetrachloro-m-xylene	102		30-150	A
Decachlorobiphenyl	125		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-01
 Client ID: EP14_E_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:15
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 05/02/19 16:48
 Analyst: KEG
 Percent Solids: 96%
 Methylation Date: 05/02/19 15:00

Extraction Method: EPA 8151A
 Extraction Date: 05/02/19 04:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	171	10.8	1	A
2,4,5-T	ND		ug/kg	171	5.30	1	A
2,4,5-TP (Silvex)	ND		ug/kg	171	4.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	71		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-02
 Client ID: EP14_10.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:20
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 05/02/19 15:19
 Analyst: KEG
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 05/02/19 03:06
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/02/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.330	1	A
Lindane	ND		ug/kg	0.702	0.314	1	A
Alpha-BHC	ND		ug/kg	0.702	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.639	1	A
Heptachlor	ND		ug/kg	0.842	0.378	1	A
Aldrin	ND		ug/kg	1.68	0.593	1	A
Heptachlor epoxide	ND		ug/kg	3.16	0.948	1	A
Endrin	ND		ug/kg	0.702	0.288	1	A
Endrin aldehyde	ND		ug/kg	2.11	0.737	1	A
Endrin ketone	ND		ug/kg	1.68	0.434	1	A
Dieldrin	ND		ug/kg	1.05	0.526	1	A
4,4'-DDE	ND		ug/kg	1.68	0.390	1	A
4,4'-DDD	ND		ug/kg	1.68	0.601	1	A
4,4'-DDT	ND		ug/kg	3.16	1.35	1	A
Endosulfan I	ND		ug/kg	1.68	0.398	1	A
Endosulfan II	ND		ug/kg	1.68	0.563	1	A
Endosulfan sulfate	ND		ug/kg	0.702	0.334	1	A
Methoxychlor	ND		ug/kg	3.16	0.983	1	A
Toxaphene	ND		ug/kg	31.6	8.84	1	A
cis-Chlordane	ND		ug/kg	2.11	0.587	1	A
trans-Chlordane	ND		ug/kg	2.11	0.556	1	A
Chlordane	ND		ug/kg	13.7	5.58	1	A

Project Name: 300 WEST 122ND STREET**Lab Number:** L1918070**Project Number:** 170500202**Report Date:** 05/02/19**SAMPLE RESULTS**

Lab ID: L1918070-02

Date Collected: 05/01/19 13:20

Client ID: EP14_10.5_050119

Date Received: 05/01/19

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	106		30-150	B
2,4,5,6-Tetrachloro-m-xylene	102		30-150	A
Decachlorobiphenyl	117		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-02
 Client ID: EP14_10.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:20
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 05/02/19 17:06
 Analyst: KEG
 Percent Solids: 94%
 Methylation Date: 05/02/19 15:00

Extraction Method: EPA 8151A
 Extraction Date: 05/02/19 04:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	173	10.9	1	A
2,4,5-T	ND		ug/kg	173	5.36	1	A
2,4,5-TP (Silvex)	ND		ug/kg	173	4.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	96		30-150	A
DCAA	82		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-03
 Client ID: EP14_N_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 05/02/19 15:32
 Analyst: KEG
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 05/02/19 03:06
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/02/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.324	1	A
Lindane	ND		ug/kg	0.689	0.308	1	A
Alpha-BHC	ND		ug/kg	0.689	0.196	1	A
Beta-BHC	ND		ug/kg	1.65	0.627	1	A
Heptachlor	ND		ug/kg	0.827	0.371	1	A
Aldrin	ND		ug/kg	1.65	0.582	1	A
Heptachlor epoxide	ND		ug/kg	3.10	0.930	1	A
Endrin	ND		ug/kg	0.689	0.282	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.723	1	A
Endrin ketone	ND		ug/kg	1.65	0.426	1	A
Dieldrin	ND		ug/kg	1.03	0.517	1	A
4,4'-DDE	ND		ug/kg	1.65	0.382	1	A
4,4'-DDD	ND		ug/kg	1.65	0.590	1	A
4,4'-DDT	ND	IP	ug/kg	3.10	1.33	1	B
Endosulfan I	ND		ug/kg	1.65	0.390	1	A
Endosulfan II	ND		ug/kg	1.65	0.552	1	A
Endosulfan sulfate	ND		ug/kg	0.689	0.328	1	A
Methoxychlor	ND		ug/kg	3.10	0.964	1	A
Toxaphene	ND		ug/kg	31.0	8.68	1	A
cis-Chlordane	ND		ug/kg	2.07	0.576	1	A
trans-Chlordane	ND		ug/kg	2.07	0.546	1	A
Chlordane	ND		ug/kg	13.4	5.48	1	A

Project Name: 300 WEST 122ND STREET**Lab Number:** L1918070**Project Number:** 170500202**Report Date:** 05/02/19**SAMPLE RESULTS**

Lab ID: L1918070-03

Date Collected: 05/01/19 13:25

Client ID: EP14_N_11.5_050119

Date Received: 05/01/19

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		30-150	B
Decachlorobiphenyl	120		30-150	B
2,4,5,6-Tetrachloro-m-xylene	109		30-150	A
Decachlorobiphenyl	128		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-03
 Client ID: EP14_N_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 05/02/19 17:24
 Analyst: KEG
 Percent Solids: 94%
 Methylation Date: 05/02/19 15:00

Extraction Method: EPA 8151A
 Extraction Date: 05/02/19 04:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	176	11.1	1	A
2,4,5-T	ND		ug/kg	176	5.46	1	A
2,4,5-TP (Silvex)	ND		ug/kg	176	4.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	79		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/02/19 14:29
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 05/02/19 01:00
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1232626-1						
Delta-BHC	ND		ug/kg	1.56	0.306	A
Lindane	ND		ug/kg	0.651	0.291	A
Alpha-BHC	ND		ug/kg	0.651	0.185	A
Beta-BHC	ND		ug/kg	1.56	0.592	A
Heptachlor	ND		ug/kg	0.781	0.350	A
Aldrin	ND		ug/kg	1.56	0.550	A
Heptachlor epoxide	ND		ug/kg	2.93	0.879	A
Endrin	ND		ug/kg	0.651	0.267	A
Endrin aldehyde	ND		ug/kg	1.95	0.684	A
Endrin ketone	ND		ug/kg	1.56	0.402	A
Dieldrin	ND		ug/kg	0.976	0.488	A
4,4'-DDE	ND		ug/kg	1.56	0.361	A
4,4'-DDD	ND		ug/kg	1.56	0.557	A
4,4'-DDT	ND		ug/kg	2.93	1.26	A
Endosulfan I	ND		ug/kg	1.56	0.369	A
Endosulfan II	ND		ug/kg	1.56	0.522	A
Endosulfan sulfate	ND		ug/kg	0.651	0.310	A
Methoxychlor	ND		ug/kg	2.93	0.911	A
Toxaphene	ND		ug/kg	29.3	8.20	A
cis-Chlordane	ND		ug/kg	1.95	0.544	A
trans-Chlordane	ND		ug/kg	1.95	0.516	A
Chlordane	ND		ug/kg	12.7	5.18	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 05/02/19 14:29
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 05/02/19 01:00
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1232626-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	107		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	119		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 05/02/19 13:30
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 05/01/19 03:32

Methylation Date: 05/02/19 09:53

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1232679-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.31	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	70		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1918070

Report Date: 05/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1232626-2 WG1232626-3									
Delta-BHC	110		107		30-150	3		30	A
Lindane	105		105		30-150	0		30	A
Alpha-BHC	109		110		30-150	1		30	A
Beta-BHC	96		97		30-150	1		30	A
Heptachlor	97		98		30-150	1		30	A
Aldrin	111		110		30-150	1		30	A
Heptachlor epoxide	117		117		30-150	0		30	A
Endrin	118		116		30-150	2		30	A
Endrin aldehyde	87		93		30-150	7		30	A
Endrin ketone	100		97		30-150	3		30	A
Dieldrin	118		117		30-150	1		30	A
4,4'-DDE	116		116		30-150	0		30	A
4,4'-DDD	106		106		30-150	0		30	A
4,4'-DDT	103		101		30-150	2		30	A
Endosulfan I	103		102		30-150	1		30	A
Endosulfan II	103		101		30-150	2		30	A
Endosulfan sulfate	82		79		30-150	4		30	A
Methoxychlor	89		87		30-150	2		30	A
cis-Chlordane	97		97		30-150	0		30	A
trans-Chlordane	87		87		30-150	0		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1918070

Report Date: 05/02/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1232626-2 WG1232626-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	93		93		30-150	B
Decachlorobiphenyl	120		118		30-150	B
2,4,5,6-Tetrachloro-m-xylene	100		100		30-150	A
Decachlorobiphenyl	131		132		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1232679-2 WG1232679-3									
2,4-D	87		82		30-150	6		30	A
2,4,5-T	70		72		30-150	3		30	A
2,4,5-TP (Silvex)	73		75		30-150	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	74		77		30-150	A
DCAA	72		75		30-150	B

METALS

Project Name: 300 WEST 122ND STREET

Lab Number: L1918070

Project Number: 170500202

Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-01
 Client ID: EP14_E_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 13:15
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1600		mg/kg	7.89	2.13	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Antimony, Total	0.308	J	mg/kg	3.95	0.300	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Arsenic, Total	0.450	J	mg/kg	0.789	0.164	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Barium, Total	22.4		mg/kg	0.789	0.137	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Beryllium, Total	0.182	J	mg/kg	0.395	0.026	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Cadmium, Total	0.087	J	mg/kg	0.789	0.077	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Calcium, Total	488		mg/kg	7.89	2.76	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Chromium, Total	3.82		mg/kg	0.789	0.076	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Cobalt, Total	1.59		mg/kg	1.58	0.131	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Copper, Total	6.84		mg/kg	0.789	0.204	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Iron, Total	4060		mg/kg	3.95	0.713	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Lead, Total	1.70	J	mg/kg	3.95	0.212	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Magnesium, Total	815		mg/kg	7.89	1.22	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Manganese, Total	144		mg/kg	0.789	0.126	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.067	0.014	1	05/02/19 08:20	05/02/19 10:55	EPA 7471B	1,7471B	GD
Nickel, Total	4.50		mg/kg	1.97	0.191	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Potassium, Total	407		mg/kg	197	11.4	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.58	0.204	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.789	0.223	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Sodium, Total	50.6	J	mg/kg	158	2.49	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.58	0.249	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Vanadium, Total	4.29		mg/kg	0.789	0.160	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
Zinc, Total	8.79		mg/kg	3.95	0.231	2	05/02/19 07:45	05/02/19 10:36	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.8		mg/kg	0.84	0.84	1		05/02/19 10:36	NA	107,-	



Project Name: 300 WEST 122ND STREET

Lab Number: L1918070

Project Number: 170500202

Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-02

Date Collected: 05/01/19 13:20

Client ID: EP14_10.5_050119

Date Received: 05/01/19

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2630		mg/kg	8.17	2.20	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.08	0.310	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Arsenic, Total	0.621	J	mg/kg	0.817	0.170	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Barium, Total	25.8		mg/kg	0.817	0.142	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Beryllium, Total	0.457		mg/kg	0.408	0.027	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Cadmium, Total	0.188	J	mg/kg	0.817	0.080	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Calcium, Total	831		mg/kg	8.17	2.86	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Chromium, Total	9.42		mg/kg	0.817	0.078	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Cobalt, Total	3.05		mg/kg	1.63	0.136	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Copper, Total	11.9		mg/kg	0.817	0.211	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Iron, Total	6330		mg/kg	4.08	0.738	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Lead, Total	2.07	J	mg/kg	4.08	0.219	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Magnesium, Total	1310		mg/kg	8.17	1.26	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Manganese, Total	95.9		mg/kg	0.817	0.130	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.067	0.014	1	05/02/19 08:20	05/02/19 10:57	EPA 7471B	1,7471B	GD
Nickel, Total	9.38		mg/kg	2.04	0.198	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Potassium, Total	680		mg/kg	204	11.8	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.63	0.211	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.817	0.231	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Sodium, Total	51.4	J	mg/kg	163	2.57	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.63	0.257	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Vanadium, Total	11.4		mg/kg	0.817	0.166	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
Zinc, Total	27.7		mg/kg	4.08	0.239	2	05/02/19 07:45	05/02/19 10:41	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.4		mg/kg	0.85	0.85	1		05/02/19 10:41	NA	107,-	



Project Name: 300 WEST 122ND STREET

Lab Number: L1918070

Project Number: 170500202

Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-03

Date Collected: 05/01/19 13:25

Client ID: EP14_N_11.5_050119

Date Received: 05/01/19

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3060		mg/kg	8.19	2.21	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Antimony, Total	0.393	J	mg/kg	4.10	0.311	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Arsenic, Total	1.52		mg/kg	0.819	0.170	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Barium, Total	45.1		mg/kg	0.819	0.142	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Beryllium, Total	0.213	J	mg/kg	0.410	0.027	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Cadmium, Total	0.229	J	mg/kg	0.819	0.080	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Calcium, Total	9370		mg/kg	8.19	2.87	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Chromium, Total	7.02		mg/kg	0.819	0.079	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Cobalt, Total	3.19		mg/kg	1.64	0.136	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Copper, Total	13.8		mg/kg	0.819	0.211	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Iron, Total	6690		mg/kg	4.10	0.740	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Lead, Total	80.0		mg/kg	4.10	0.220	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Magnesium, Total	1900		mg/kg	8.19	1.26	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Manganese, Total	209		mg/kg	0.819	0.130	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Mercury, Total	0.030	J	mg/kg	0.067	0.014	1	05/02/19 08:20	05/02/19 11:03	EPA 7471B	1,7471B	GD
Nickel, Total	8.88		mg/kg	2.05	0.198	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Potassium, Total	723		mg/kg	205	11.8	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.64	0.211	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.819	0.232	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Sodium, Total	226		mg/kg	164	2.58	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.64	0.258	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Vanadium, Total	10.2		mg/kg	0.819	0.166	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
Zinc, Total	32.3		mg/kg	4.10	0.240	2	05/02/19 07:45	05/02/19 11:26	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	6.7	J	mg/kg	0.85	0.85	1		05/02/19 11:26	NA	107,-	



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

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): 01-03 Batch: WG1232730-1									
Mercury, Total	ND	mg/kg	0.083	0.018	1	05/02/19 08:20	05/02/19 10:41	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1232740-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Antimony, Total	ND	mg/kg	2.00	0.152	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Barium, Total	ND	mg/kg	0.400	0.070	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Calcium, Total	ND	mg/kg	4.00	1.40	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Chromium, Total	ND	mg/kg	0.400	0.038	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Copper, Total	ND	mg/kg	0.400	0.103	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Iron, Total	0.684	J	mg/kg	2.00	0.361	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Manganese, Total	0.304	J	mg/kg	0.400	0.064	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC
Nickel, Total	ND	mg/kg	1.00	0.097	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Potassium, Total	ND	mg/kg	100	5.76	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Selenium, Total	ND	mg/kg	0.800	0.103	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Silver, Total	ND	mg/kg	0.400	0.113	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Sodium, Total	10.9	J	mg/kg	80.0	1.26	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC
Thallium, Total	ND	mg/kg	0.800	0.126	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Zinc, Total	ND	mg/kg	2.00	0.117	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	

Project Name: 300 WEST 122ND STREET

Lab Number: L1918070

Project Number: 170500202

Report Date: 05/02/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1232730-2 SRM Lot Number: D101-540								
Mercury, Total	101		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1232740-2 SRM Lot Number: D101-540					
Aluminum, Total	67	-	50-151	-	
Antimony, Total	157	-	3-196	-	
Arsenic, Total	109	-	83-117	-	
Barium, Total	92	-	83-118	-	
Beryllium, Total	94	-	83-117	-	
Cadmium, Total	98	-	83-117	-	
Calcium, Total	92	-	81-119	-	
Chromium, Total	96	-	81-118	-	
Cobalt, Total	101	-	84-116	-	
Copper, Total	98	-	83-116	-	
Iron, Total	89	-	62-138	-	
Lead, Total	104	-	83-117	-	
Magnesium, Total	86	-	76-124	-	
Manganese, Total	90	-	82-118	-	
Nickel, Total	101	-	82-117	-	
Potassium, Total	86	-	71-130	-	
Selenium, Total	104	-	79-121	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	92	-	72-127	-	
Thallium, Total	102	-	81-119	-	
Vanadium, Total	97	-	79-121	-	

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1232740-2 SRM Lot Number: D101-540					
Zinc, Total	103	-	81-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

<u>Parameter</u>	<u>Native Sample</u>	<u>MS Added</u>	<u>MS Found</u>	<u>MS %Recovery</u>	<u>Qual</u>	<u>MSD Found</u>	<u>MSD %Recovery</u>	<u>Qual</u>	<u>Recovery Limits</u>	<u>RPD</u>	<u>Qual</u>	<u>RPD Limits</u>
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1232730-3 QC Sample: L1918000-01 Client ID: MS Sample												
Mercury, Total	0.089	0.163	0.249	98		-	-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1232740-3 QC Sample: L1918000-01 Client ID: MS Sample									
Aluminum, Total	9930	161	11100	728	Q	-	75-125	-	20
Antimony, Total	126	40.2	173	117		-	75-125	-	20
Arsenic, Total	82.9	9.65	91.3	87		-	75-125	-	20
Barium, Total	384	161	589	128	Q	-	75-125	-	20
Beryllium, Total	0.243J	4.02	4.00	100		-	75-125	-	20
Cadmium, Total	22.3	4.1	25.4	76		-	75-125	-	20
Calcium, Total	10100	804	11100	124		-	75-125	-	20
Chromium, Total	927	16.1	889	0	Q	-	75-125	-	20
Cobalt, Total	40.8	40.2	74.3	83		-	75-125	-	20
Copper, Total	5280	20.1	5420	696	Q	-	75-125	-	20
Iron, Total	304000	80.4	301000	0	Q	-	75-125	-	20
Lead, Total	897	41	934	90		-	75-125	-	20
Magnesium, Total	2740	804	3460	90		-	75-125	-	20
Manganese, Total	16100	40.2	16100	0	Q	-	75-125	-	20
Nickel, Total	2100	40.2	2120	50	Q	-	75-125	-	20
Potassium, Total	6210	804	7490	159	Q	-	75-125	-	20
Selenium, Total	3.99	9.65	12.0	83		-	75-125	-	20
Silver, Total	33.2	24.1	60.7	114		-	75-125	-	20
Sodium, Total	11200	804	12900	211	Q	-	75-125	-	20
Thallium, Total	12.2	9.65	18.6	66	Q	-	75-125	-	20
Vanadium, Total	84.8	40.2	123	95		-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits	
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1232740-3 QC Sample: L1918000-01 Client ID: MS Sample										
Zinc, Total	36600	40.2	37800	2980	Q	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1232730-4 QC Sample: L1918000-01 Client ID: DUP Sample						
Mercury, Total	0.089	0.087	mg/kg	2		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1232740-4 QC Sample: L1918000-01 Client ID: DUP Sample						
Aluminum, Total	9930	9550	mg/kg	4		20
Antimony, Total	126	126	mg/kg	0		20
Arsenic, Total	82.9	75.9	mg/kg	9		20
Barium, Total	384	334	mg/kg	14		20
Beryllium, Total	0.243J	0.216J	mg/kg	NC		20
Cadmium, Total	22.3	21.9	mg/kg	2		20
Calcium, Total	10100	9220	mg/kg	9		20
Cobalt, Total	40.8	39.2	mg/kg	4		20
Lead, Total	897	878	mg/kg	2		20
Magnesium, Total	2740	2660	mg/kg	3		20
Nickel, Total	2100	2040	mg/kg	3		20
Potassium, Total	6210	5870	mg/kg	6		20
Selenium, Total	3.99	3.69	mg/kg	8		20
Silver, Total	33.2	31.6	mg/kg	5		20
Sodium, Total	11200	10700	mg/kg	5		20
Thallium, Total	12.2	11.7	mg/kg	4		20
Vanadium, Total	84.8	77.6	mg/kg	9		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1918070

Report Date: 05/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1232740-4 QC Sample: L1918000-01 Client ID: DUP Sample					
Chromium, Total	927	993	mg/kg	7	20
Copper, Total	5280	5740	mg/kg	8	20
Iron, Total	304000	325000	mg/kg	7	20
Manganese, Total	16100	16700	mg/kg	4	20
Zinc, Total	36600	39500	mg/kg	8	20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-01
Client ID: EP14_E_11.5_050119
Sample Location: NY, NY

Date Collected: 05/01/19 13:15
Date Received: 05/01/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.6		%	0.100	NA	1	-	05/02/19 02:51	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/02/19 05:10	05/02/19 12:01	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.837	0.167	1	05/02/19 04:50	05/02/19 09:58	1,7196A	NH



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-02
Client ID: EP14_10.5_050119
Sample Location: NY, NY

Date Collected: 05/01/19 13:20
Date Received: 05/01/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.4		%	0.100	NA	1	-	05/02/19 02:51	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/02/19 05:10	05/02/19 12:02	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.847	0.169	1	05/02/19 04:50	05/02/19 09:58	1,7196A	NH



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1918070-03
Client ID: EP14_N_11.5_050119
Sample Location: NY, NY

Date Collected: 05/01/19 13:25
Date Received: 05/01/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.9		%	0.100	NA	1	-	05/02/19 02:51	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/02/19 05:10	05/02/19 12:05	1,9010C/9012B	LH
Chromium, Hexavalent	0.341	J	mg/kg	0.852	0.170	1	05/02/19 04:50	05/02/19 09:58	1,7196A	NH



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

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): 01-03 Batch: WG1232687-1									
Cyanide, Total	ND	mg/kg	1.0	0.21	1	05/02/19 05:10	05/02/19 11:55	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1232727-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	05/02/19 04:50	05/02/19 09:58	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1918070

Report Date: 05/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1232687-2 WG1232687-3								
Cyanide, Total	75	Q	39	Q	80-120	68	Q	35
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1232727-2								
Chromium, Hexavalent	93		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1232687-4 WG1232687-5 QC Sample: L1918070-03 Client ID: EP14_N_11.5_050119												
Cyanide, Total	ND	10	11	110		10	98		75-125	10		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1232727-4 QC Sample: L1918070-02 Client ID: EP14_10.5_050119												
Chromium, Hexavalent	ND	749	773	103		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1232656-1 QC Sample: L1917925-05 Client ID: DUP Sample						
Solids, Total	91.2	87.8	%	4		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1232727-6 QC Sample: L1918070-02 Client ID: EP14_10.5_050119						
Chromium, Hexavalent	ND	0.222J	mg/kg	NC		20

Project Name: 300 WEST 122ND STREET

Lab Number: L1918070

Project Number: 170500202

Report Date: 05/02/19

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1918070-01A	Vial MeOH preserved	A	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L1918070-01B	Vial water preserved	A	NA		3.0	Y	Absent	02-MAY-19 02:46	NYTCL-8260HLW(14)
L1918070-01C	Vial water preserved	A	NA		3.0	Y	Absent	02-MAY-19 02:46	NYTCL-8260HLW(14)
L1918070-01D	Plastic 2oz unpreserved for TS	A	NA		3.0	Y	Absent		TS(7)
L1918070-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	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)
L1918070-01F	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1918070-01G	Glass 500ml/16oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1918070-02A	Vial MeOH preserved	A	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L1918070-02B	Vial water preserved	A	NA		3.0	Y	Absent	02-MAY-19 02:46	NYTCL-8260HLW(14)
L1918070-02C	Vial water preserved	A	NA		3.0	Y	Absent	02-MAY-19 02:46	NYTCL-8260HLW(14)
L1918070-02D	Plastic 2oz unpreserved for TS	A	NA		3.0	Y	Absent		TS(7)
L1918070-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	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)
L1918070-02F	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1918070-02G	Glass 500ml/16oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1918070-03A	Vial MeOH preserved	A	NA		3.0	Y	Absent		NYTCL-8260HLW(14)

Project Name: 300 WEST 122ND STREET**Lab Number:** L1918070**Project Number:** 170500202**Report Date:** 05/02/19**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1918070-03B	Vial water preserved	A	NA		3.0	Y	Absent	02-MAY-19 02:46	NYTCL-8260HLW(14)
L1918070-03C	Vial water preserved	A	NA		3.0	Y	Absent	02-MAY-19 02:46	NYTCL-8260HLW(14)
L1918070-03D	Plastic 2oz unpreserved for TS	A	NA		3.0	Y	Absent		TS(7)
L1918070-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	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)
L1918070-03F	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1918070-03G	Glass 500ml/16oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

- 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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1918070
Report Date: 05/02/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water


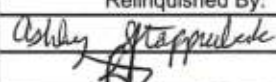
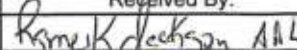



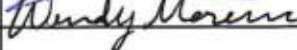
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK 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	Date Rec'd in Lab 5/1/19	ALPHA Job # L1918070			
		of 1					
Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information Project Name: 300 West 122nd Street Project Location: NY, NY Project # 170500202		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other				
Client Information Client: LANGAN, DPC Address: 360 W. 31st St, Flr. 8 NY, NY 10001 Phone: 212-479-5400 Fax: _____ Email: GWKYA@LANGAN.COM		(Use Project name as Project #) <input type="checkbox"/> Project Manager: Greg Wyka ALPHAQuote #: _____		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO# _____			
Turn-Around Time Standard <input type="checkbox"/> Due Date: _____ Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days: 24 hr.		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other TCL <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other: _____			
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: _____ Please specify Metals or TAL. _____		ANALYSIS Part 375 / TCL VOCs SVOCs PCBs Pest/Herb TAL Metals + Her/Her Chromium + Total Cyanide		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Total Bottles	
		Date	Time				
18070 - 01	EPI4_E-11.5_050119	5/1/19	1315	SOIL	AS		
-02	EPI4-10.5_050119	↓	1320	↓	↓		
-03	EPI4-N-11.5_050119	↓	1325	↓	↓		
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	
Relinquished By: 		Date/Time 5/1/19 1630		Received By: 		Date/Time 5/1/19 1630	
		5/1/19 1905				5/1/19 1930	
		5/1/19 2350				5/1/19 23:50	

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.)



ANALYTICAL REPORT

Lab Number:	L1917598
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	05/08/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1917598-01	EP14_E_14.5_042919	SOIL	NY, NY	04/29/19 09:55	04/29/19
L1917598-02	EP22_15_042919	SOIL	NY, NY	04/29/19 14:30	04/29/19
L1917598-03	EP14_S_10_042919	SOIL	NY, NY	04/29/19 14:00	04/29/19
L1917598-04	EP14_S_14.5_042919	SOIL	NY, NY	04/29/19 09:45	04/29/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

Case Narrative (continued)

Report Submission

May 08, 2019: This final report includes the results of all requested analyses.

April 30, 2019: This is a preliminary report.

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

Sample Receipt

L1917598-02: The sample identified as "EP22_15_042919" on the chain of custody was identified as "EP20_15_042919" on the container label. At the client's request, the sample is reported as "EP22_15_042919".

Semivolatile Organics

The WG1231750-2/-3 LCS/LCSD recoveries, associated with L1917598-01 through -03, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Total Metals

L1917598-01, -02 and -03: 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.

The WG1231761-3 MS recoveries for aluminum (477%), calcium (580%), iron (314%) and manganese (191%), performed on L1917598-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1231761-4 Laboratory Duplicate RPD for calcium (22%), performed on L1917598-01, is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit.

Therefore, the RPD is valid.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

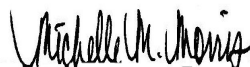
Case Narrative (continued)

Cyanide, Total

The WG1231767-2/-3 LCS/LCSD recoveries (79%/69%), associated with L1917598-01 through -03, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 05/08/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-01
 Client ID: EP14_E_14.5_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 09:55
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/30/19 09:28
 Analyst: JC
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.14	1
Chloroform	0.48	J	ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.98	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.98	0.12	1
Dibromochloromethane	ND		ug/kg	0.98	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.98	0.53	1
Ethylbenzene	ND		ug/kg	0.98	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.98	0.33	1
Chloroethane	ND		ug/kg	2.0	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-01
 Client ID: EP14_E_14.5_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 09:55
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.98	0.28	1
Xylenes, Total	ND		ug/kg	0.98	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	0.13	1
Dibromomethane	ND		ug/kg	2.0	0.23	1
Styrene	ND		ug/kg	0.98	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.89	1
Acetone	ND		ug/kg	9.8	4.7	1
Carbon disulfide	ND		ug/kg	9.8	4.4	1
2-Butanone	ND		ug/kg	9.8	2.2	1
Vinyl acetate	ND		ug/kg	9.8	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
2-Hexanone	ND		ug/kg	9.8	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.98	0.27	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.98	0.16	1
sec-Butylbenzene	ND		ug/kg	0.98	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.98	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.11	1
Naphthalene	ND		ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-01
 Client ID: EP14_E_14.5_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 09:55
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.98	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.32	1
1,4-Dioxane	ND		ug/kg	78	34.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.17	1
p-Ethyltoluene	ND		ug/kg	2.0	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	92		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-02
 Client ID: EP22_15_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:30
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/30/19 09:54
 Analyst: JC
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.9	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.37	1
Tetrachloroethene	ND		ug/kg	0.69	0.27	1
Chlorobenzene	ND		ug/kg	0.69	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.96	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.69	0.23	1
Bromodichloromethane	ND		ug/kg	0.69	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.69	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.69	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.69	0.22	1
Bromoform	ND		ug/kg	5.5	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.69	0.23	1
Benzene	ND		ug/kg	0.69	0.23	1
Toluene	ND		ug/kg	1.4	0.75	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.5	1.3	1
Bromomethane	ND		ug/kg	2.8	0.80	1
Vinyl chloride	ND		ug/kg	1.4	0.46	1
Chloroethane	ND		ug/kg	2.8	0.62	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-02
 Client ID: EP22_15_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:30
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.69	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.77	1
o-Xylene	ND		ug/kg	1.4	0.40	1
Xylenes, Total	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.19	1
Dibromomethane	ND		ug/kg	2.8	0.33	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	16		ug/kg	14	6.6	1
Carbon disulfide	ND		ug/kg	14	6.3	1
2-Butanone	ND		ug/kg	14	3.1	1
Vinyl acetate	ND		ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	0.18	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.8	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.8	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.8	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.69	0.18	1
Bromobenzene	ND		ug/kg	2.8	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.8	0.16	1
o-Chlorotoluene	ND		ug/kg	2.8	0.26	1
p-Chlorotoluene	ND		ug/kg	2.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.5	0.90	1
Acrylonitrile	ND		ug/kg	5.5	1.6	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-02
 Client ID: EP22_15_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:30
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.46	1
1,4-Dioxane	ND		ug/kg	110	48.	1
p-Diethylbenzene	ND		ug/kg	2.8	0.24	1
p-Ethyltoluene	ND		ug/kg	2.8	0.53	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.8	0.26	1
Ethyl ether	ND		ug/kg	2.8	0.47	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.9	2.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	94		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-03
 Client ID: EP14_S_10_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:00
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/30/19 10:20
 Analyst: JC
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: 300 WEST 122ND ST.**Lab Number:** L1917598**Project Number:** 170500202**Report Date:** 05/08/19**SAMPLE RESULTS**

Lab ID: L1917598-03
 Client ID: EP14_S_10_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:00
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-03
Client ID: EP14_S_10_042919
Sample Location: NY, NY

Date Collected: 04/29/19 14:00
Date Received: 04/29/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	95		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 04/30/19 09:02
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1231864-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	1.6	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 04/30/19 09:02
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1231864-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 04/30/19 09:02
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1231864-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	0.69	J	ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	93		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1231864-3 WG1231864-4								
Methylene chloride	92		91		70-130	1		30
1,1-Dichloroethane	104		103		70-130	1		30
Chloroform	96		95		70-130	1		30
Carbon tetrachloride	89		88		70-130	1		30
1,2-Dichloropropane	108		107		70-130	1		30
Dibromochloromethane	92		93		70-130	1		30
1,1,2-Trichloroethane	98		101		70-130	3		30
Tetrachloroethene	86		84		70-130	2		30
Chlorobenzene	93		92		70-130	1		30
Trichlorofluoromethane	81		83		70-139	2		30
1,2-Dichloroethane	100		101		70-130	1		30
1,1,1-Trichloroethane	92		91		70-130	1		30
Bromodichloromethane	96		96		70-130	0		30
trans-1,3-Dichloropropene	102		102		70-130	0		30
cis-1,3-Dichloropropene	100		99		70-130	1		30
1,1-Dichloropropene	97		96		70-130	1		30
Bromoform	89		91		70-130	2		30
1,1,2,2-Tetrachloroethane	101		105		70-130	4		30
Benzene	98		96		70-130	2		30
Toluene	98		96		70-130	2		30
Ethylbenzene	99		97		70-130	2		30
Chloromethane	78		76		52-130	3		30
Bromomethane	107		107		57-147	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1231864-3 WG1231864-4								
Vinyl chloride	81		81		67-130	0		30
Chloroethane	91		93		50-151	2		30
1,1-Dichloroethene	82		81		65-135	1		30
trans-1,2-Dichloroethene	88		86		70-130	2		30
Trichloroethene	93		92		70-130	1		30
1,2-Dichlorobenzene	94		93		70-130	1		30
1,3-Dichlorobenzene	95		95		70-130	0		30
1,4-Dichlorobenzene	94		93		70-130	1		30
Methyl tert butyl ether	89		91		66-130	2		30
p/m-Xylene	95		93		70-130	2		30
o-Xylene	95		93		70-130	2		30
cis-1,2-Dichloroethene	89		89		70-130	0		30
Dibromomethane	95		94		70-130	1		30
Styrene	92		91		70-130	1		30
Dichlorodifluoromethane	46		45		30-146	2		30
Acetone	97		97		54-140	0		30
Carbon disulfide	87		85		59-130	2		30
2-Butanone	114		113		70-130	1		30
Vinyl acetate	102		103		70-130	1		30
4-Methyl-2-pentanone	97		100		70-130	3		30
1,2,3-Trichloropropane	102		105		68-130	3		30
2-Hexanone	102		103		70-130	1		30
Bromochloromethane	89		88		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1231864-3 WG1231864-4								
2,2-Dichloropropane	99		97		70-130	2		30
1,2-Dibromoethane	93		94		70-130	1		30
1,3-Dichloropropane	103		103		69-130	0		30
1,1,1,2-Tetrachloroethane	93		92		70-130	1		30
Bromobenzene	91		92		70-130	1		30
n-Butylbenzene	108		105		70-130	3		30
sec-Butylbenzene	103		100		70-130	3		30
tert-Butylbenzene	98		96		70-130	2		30
o-Chlorotoluene	105		105		70-130	0		30
p-Chlorotoluene	105		105		70-130	0		30
1,2-Dibromo-3-chloropropane	84		88		68-130	5		30
Hexachlorobutadiene	91		88		67-130	3		30
Isopropylbenzene	100		99		70-130	1		30
p-Isopropyltoluene	99		97		70-130	2		30
Naphthalene	93		94		70-130	1		30
Acrylonitrile	96		98		70-130	2		30
n-Propylbenzene	104		103		70-130	1		30
1,2,3-Trichlorobenzene	86		87		70-130	1		30
1,2,4-Trichlorobenzene	89		90		70-130	1		30
1,3,5-Trimethylbenzene	102		101		70-130	1		30
1,2,4-Trimethylbenzene	102		100		70-130	2		30
1,4-Dioxane	100		100		65-136	0		30
p-Diethylbenzene	98		96		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917598

Report Date: 05/08/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1231864-3 WG1231864-4								
p-Ethyltoluene	101		100		70-130	1		30
1,2,4,5-Tetramethylbenzene	94		93		70-130	1		30
Ethyl ether	92		94		67-130	2		30
trans-1,4-Dichloro-2-butene	116		120		70-130	3		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	104		106		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	107		108		70-130
Dibromofluoromethane	97		96		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-01
 Client ID: EP14_E_14.5_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 09:55
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/30/19 14:01
 Analyst: EK
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 04/30/19 05:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	19	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	510		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	23	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 300 WEST 122ND ST.**Lab Number:** L1917598**Project Number:** 170500202**Report Date:** 05/08/19**SAMPLE RESULTS**

Lab ID: L1917598-01
 Client ID: EP14_E_14.5_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 09:55
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	280		ug/kg	100	20.	1
Benzo(a)pyrene	250		ug/kg	140	43.	1
Benzo(b)fluoranthene	330		ug/kg	100	30.	1
Benzo(k)fluoranthene	100		ug/kg	100	28.	1
Chrysene	260		ug/kg	100	18.	1
Acenaphthylene	72	J	ug/kg	140	27.	1
Anthracene	97	J	ug/kg	100	34.	1
Benzo(ghi)perylene	150		ug/kg	140	21.	1
Fluorene	31	J	ug/kg	180	17.	1
Phenanthrene	280		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	42	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	170		ug/kg	140	25.	1
Pyrene	460		ug/kg	100	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-01
 Client ID: EP14_E_14.5_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 09:55
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	31	J	ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	59		10-136
4-Terphenyl-d14	68		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-02
 Client ID: EP22_15_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:30
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/30/19 13:36
 Analyst: EK
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 04/30/19 05:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	270		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-02
 Client ID: EP22_15_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:30
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	160		ug/kg	100	20.	1
Benzo(a)pyrene	170		ug/kg	140	43.	1
Benzo(b)fluoranthene	210		ug/kg	100	30.	1
Benzo(k)fluoranthene	74	J	ug/kg	100	28.	1
Chrysene	140		ug/kg	100	18.	1
Acenaphthylene	87	J	ug/kg	140	27.	1
Anthracene	66	J	ug/kg	100	34.	1
Benzo(ghi)perylene	130	J	ug/kg	140	21.	1
Fluorene	18	J	ug/kg	180	17.	1
Phenanthrene	140		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	31	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	130	J	ug/kg	140	24.	1
Pyrene	240		ug/kg	100	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-02
 Client ID: EP22_15_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:30
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	19	J	ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	70		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-03
 Client ID: EP14_S_10_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:00
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/30/19 13:10
 Analyst: EK
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 04/30/19 05:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-03
 Client ID: EP14_S_10_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:00
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	830	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-03
 Client ID: EP14_S_10_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:00
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	78		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/30/19 13:32
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 04/30/19 04:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1231750-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/30/19 13:32
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 04/30/19 04:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1231750-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 04/30/19 13:32
 Analyst: EK

Extraction Method: EPA 3546
 Extraction Date: 04/30/19 04:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1231750-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	82		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1231750-2 WG1231750-3								
Acenaphthene	82		80		31-137	2		50
1,2,4-Trichlorobenzene	76		72		38-107	5		50
Hexachlorobenzene	88		84		40-140	5		50
Bis(2-chloroethyl)ether	72		72		40-140	0		50
2-Chloronaphthalene	84		82		40-140	2		50
1,2-Dichlorobenzene	72		70		40-140	3		50
1,3-Dichlorobenzene	71		67		40-140	6		50
1,4-Dichlorobenzene	71		68		28-104	4		50
3,3'-Dichlorobenzidine	86		86		40-140	0		50
2,4-Dinitrotoluene	92		90		40-132	2		50
2,6-Dinitrotoluene	90		88		40-140	2		50
Fluoranthene	83		82		40-140	1		50
4-Chlorophenyl phenyl ether	87		84		40-140	4		50
4-Bromophenyl phenyl ether	93		89		40-140	4		50
Bis(2-chloroisopropyl)ether	87		83		40-140	5		50
Bis(2-chloroethoxy)methane	79		76		40-117	4		50
Hexachlorobutadiene	80		80		40-140	0		50
Hexachlorocyclopentadiene	40		45		40-140	12		50
Hexachloroethane	70		69		40-140	1		50
Isophorone	83		80		40-140	4		50
Naphthalene	77		74		40-140	4		50
Nitrobenzene	81		78		40-140	4		50
NDPA/DPA	90		89		36-157	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1231750-2 WG1231750-3								
n-Nitrosodi-n-propylamine	83		81		32-121	2		50
Bis(2-ethylhexyl)phthalate	101		99		40-140	2		50
Butyl benzyl phthalate	91		90		40-140	1		50
Di-n-butylphthalate	89		86		40-140	3		50
Di-n-octylphthalate	105		104		40-140	1		50
Diethyl phthalate	94		92		40-140	2		50
Dimethyl phthalate	90		85		40-140	6		50
Benzo(a)anthracene	94		92		40-140	2		50
Benzo(a)pyrene	98		97		40-140	1		50
Benzo(b)fluoranthene	93		93		40-140	0		50
Benzo(k)fluoranthene	92		91		40-140	1		50
Chrysene	88		87		40-140	1		50
Acenaphthylene	89		88		40-140	1		50
Anthracene	80		79		40-140	1		50
Benzo(ghi)perylene	82		80		40-140	2		50
Fluorene	91		87		40-140	4		50
Phenanthrene	78		77		40-140	1		50
Dibenzo(a,h)anthracene	80		79		40-140	1		50
Indeno(1,2,3-cd)pyrene	87		85		40-140	2		50
Pyrene	82		81		35-142	1		50
Biphenyl	84		82		54-104	2		50
4-Chloroaniline	93		96		40-140	3		50
2-Nitroaniline	96		90		47-134	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1231750-2 WG1231750-3								
3-Nitroaniline	99		94		26-129	5		50
4-Nitroaniline	100		97		41-125	3		50
Dibenzofuran	86		85		40-140	1		50
2-Methylnaphthalene	80		76		40-140	5		50
1,2,4,5-Tetrachlorobenzene	90		87		40-117	3		50
Acetophenone	85		82		14-144	4		50
2,4,6-Trichlorophenol	97		96		30-130	1		50
p-Chloro-m-cresol	96		94		26-103	2		50
2-Chlorophenol	80		76		25-102	5		50
2,4-Dichlorophenol	88		86		30-130	2		50
2,4-Dimethylphenol	90		86		30-130	5		50
2-Nitrophenol	60		65		30-130	8		50
4-Nitrophenol	97		96		11-114	1		50
2,4-Dinitrophenol	20		20		4-130	0		50
4,6-Dinitro-o-cresol	28		33		10-130	16		50
Pentachlorophenol	79		81		17-109	3		50
Phenol	84		81		26-90	4		50
2-Methylphenol	83		80		30-130	4		50
3-Methylphenol/4-Methylphenol	90		87		30-130	3		50
2,4,5-Trichlorophenol	97		96		30-130	1		50
Benzoic Acid	0	Q	0	Q	10-110	NC		50
Benzyl Alcohol	88		85		40-140	3		50
Carbazole	84		83		54-128	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1231750-2 WG1231750-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
2-Fluorophenol	78		77		25-120
Phenol-d6	78		77		10-120
Nitrobenzene-d5	83		82		23-120
2-Fluorobiphenyl	84		83		30-120
2,4,6-Tribromophenol	95		99		10-136
4-Terphenyl-d14	81		82		18-120

PCBS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-01
 Client ID: EP14_E_14.5_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 09:55
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/30/19 11:08
 Analyst: WR
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 04/30/19 04:22
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/30/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.8	3.09	1	A
Aroclor 1221	ND		ug/kg	34.8	3.48	1	A
Aroclor 1232	ND		ug/kg	34.8	7.37	1	A
Aroclor 1242	ND		ug/kg	34.8	4.68	1	A
Aroclor 1248	ND		ug/kg	34.8	5.21	1	A
Aroclor 1254	12.9	J	ug/kg	34.8	3.80	1	B
Aroclor 1260	ND		ug/kg	34.8	6.42	1	A
Aroclor 1262	ND		ug/kg	34.8	4.41	1	A
Aroclor 1268	ND		ug/kg	34.8	3.60	1	A
PCBs, Total	12.9	J	ug/kg	34.8	3.09	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-02
 Client ID: EP22_15_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:30
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/30/19 11:21
 Analyst: WR
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 04/30/19 04:22
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/30/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.3	3.14	1	A
Aroclor 1221	ND		ug/kg	35.3	3.54	1	A
Aroclor 1232	ND		ug/kg	35.3	7.49	1	A
Aroclor 1242	ND		ug/kg	35.3	4.76	1	A
Aroclor 1248	ND		ug/kg	35.3	5.30	1	A
Aroclor 1254	8.22	J	ug/kg	35.3	3.86	1	B
Aroclor 1260	ND		ug/kg	35.3	6.53	1	A
Aroclor 1262	ND		ug/kg	35.3	4.49	1	A
Aroclor 1268	ND		ug/kg	35.3	3.66	1	A
PCBs, Total	8.22	J	ug/kg	35.3	3.14	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-03
 Client ID: EP14_S_10_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:00
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/30/19 11:34
 Analyst: WR
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 04/30/19 04:22
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/30/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.4	3.15	1	A
Aroclor 1221	ND		ug/kg	35.4	3.55	1	A
Aroclor 1232	ND		ug/kg	35.4	7.51	1	A
Aroclor 1242	ND		ug/kg	35.4	4.78	1	A
Aroclor 1248	ND		ug/kg	35.4	5.32	1	A
Aroclor 1254	ND		ug/kg	35.4	3.88	1	A
Aroclor 1260	ND		ug/kg	35.4	6.55	1	A
Aroclor 1262	ND		ug/kg	35.4	4.50	1	A
Aroclor 1268	ND		ug/kg	35.4	3.67	1	A
PCBs, Total	ND		ug/kg	35.4	3.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 04/30/19 10:30
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 04/29/19 20:34
Cleanup Method: EPA 3665A
Cleanup Date: 04/30/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG1231658-1						
Aroclor 1016	ND		ug/kg	32.6	2.89	A
Aroclor 1221	ND		ug/kg	32.6	3.26	A
Aroclor 1232	ND		ug/kg	32.6	6.91	A
Aroclor 1242	ND		ug/kg	32.6	4.39	A
Aroclor 1248	ND		ug/kg	32.6	4.89	A
Aroclor 1254	ND		ug/kg	32.6	3.56	A
Aroclor 1260	ND		ug/kg	32.6	6.02	A
Aroclor 1262	ND		ug/kg	32.6	4.14	A
Aroclor 1268	ND		ug/kg	32.6	3.38	A
PCBs, Total	ND		ug/kg	32.6	2.89	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	74		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1231658-2 WG1231658-3									
Aroclor 1016	107		100		40-140	7		50	A
Aroclor 1260	87		84		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		76		30-150	A
Decachlorobiphenyl	70		69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		78		30-150	B
Decachlorobiphenyl	73		75		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-01
 Client ID: EP14_E_14.5_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 09:55
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/30/19 11:33
 Analyst: KEG
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 04/30/19 04:28
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.333	1	A
Lindane	ND		ug/kg	0.708	0.316	1	A
Alpha-BHC	ND		ug/kg	0.708	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.644	1	A
Heptachlor	ND		ug/kg	0.850	0.381	1	A
Aldrin	ND		ug/kg	1.70	0.598	1	A
Heptachlor epoxide	ND		ug/kg	3.19	0.956	1	A
Endrin	ND		ug/kg	0.708	0.290	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.744	1	A
Endrin ketone	ND		ug/kg	1.70	0.438	1	A
Dieldrin	1.06		ug/kg	1.06	0.531	1	A
4,4'-DDE	ND		ug/kg	1.70	0.393	1	A
4,4'-DDD	ND		ug/kg	1.70	0.606	1	A
4,4'-DDT	ND		ug/kg	3.19	1.37	1	A
Endosulfan I	ND		ug/kg	1.70	0.401	1	A
Endosulfan II	ND	IP	ug/kg	1.70	0.568	1	A
Endosulfan sulfate	ND		ug/kg	0.708	0.337	1	A
Methoxychlor	ND		ug/kg	3.19	0.991	1	A
Toxaphene	ND		ug/kg	31.9	8.92	1	A
cis-Chlordane	0.626	JIP	ug/kg	2.12	0.592	1	A
trans-Chlordane	ND		ug/kg	2.12	0.561	1	A
Chlordane	ND		ug/kg	13.8	5.63	1	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-01
 Client ID: EP14_E_14.5_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 09:55
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	71		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	83		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-01
 Client ID: EP14_E_14.5_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 09:55
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/30/19 15:00
 Analyst: DGM
 Percent Solids: 93%
 Methylation Date: 04/30/19 14:19

Extraction Method: EPA 8151A
 Extraction Date: 04/30/19 04:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	178	11.2	1	A
2,4,5-T	ND		ug/kg	178	5.51	1	A
2,4,5-TP (Silvex)	ND		ug/kg	178	4.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	94		30-150	A
DCAA	81		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-02
 Client ID: EP22_15_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:30
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/30/19 11:46
 Analyst: KEG
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 04/30/19 04:28
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.61	0.316	1	A
Lindane	ND		ug/kg	0.672	0.300	1	A
Alpha-BHC	ND		ug/kg	0.672	0.191	1	A
Beta-BHC	ND		ug/kg	1.61	0.612	1	A
Heptachlor	ND		ug/kg	0.806	0.362	1	A
Aldrin	ND		ug/kg	1.61	0.568	1	A
Heptachlor epoxide	ND		ug/kg	3.02	0.907	1	A
Endrin	ND		ug/kg	0.672	0.276	1	A
Endrin aldehyde	ND		ug/kg	2.02	0.706	1	A
Endrin ketone	ND		ug/kg	1.61	0.415	1	A
Dieldrin	ND		ug/kg	1.01	0.504	1	B
4,4'-DDE	ND		ug/kg	1.61	0.373	1	A
4,4'-DDD	ND		ug/kg	1.61	0.575	1	A
4,4'-DDT	ND		ug/kg	3.02	1.30	1	A
Endosulfan I	ND		ug/kg	1.61	0.381	1	A
Endosulfan II	ND		ug/kg	1.61	0.539	1	B
Endosulfan sulfate	ND		ug/kg	0.672	0.320	1	A
Methoxychlor	ND		ug/kg	3.02	0.941	1	A
Toxaphene	ND		ug/kg	30.2	8.47	1	A
cis-Chlordane	ND		ug/kg	2.02	0.562	1	A
trans-Chlordane	ND		ug/kg	2.02	0.532	1	A
Chlordane	ND		ug/kg	13.1	5.34	1	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-02
 Client ID: EP22_15_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:30
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	82		30-150	B
2,4,5,6-Tetrachloro-m-xylene	109		30-150	A
Decachlorobiphenyl	105		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-02
 Client ID: EP22_15_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:30
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/30/19 15:18
 Analyst: DGM
 Percent Solids: 93%
 Methylation Date: 04/30/19 14:19

Extraction Method: EPA 8151A
 Extraction Date: 04/30/19 04:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	175	11.0	1	A
2,4,5-T	ND		ug/kg	175	5.43	1	A
2,4,5-TP (Silvex)	ND		ug/kg	175	4.66	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	82		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-03
 Client ID: EP14_S_10_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:00
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/30/19 11:58
 Analyst: KEG
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 04/30/19 04:28
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.326	1	A
Lindane	ND		ug/kg	0.693	0.310	1	A
Alpha-BHC	ND		ug/kg	0.693	0.197	1	A
Beta-BHC	ND		ug/kg	1.66	0.631	1	A
Heptachlor	ND		ug/kg	0.832	0.373	1	A
Aldrin	ND		ug/kg	1.66	0.586	1	A
Heptachlor epoxide	ND		ug/kg	3.12	0.936	1	A
Endrin	ND		ug/kg	0.693	0.284	1	A
Endrin aldehyde	ND		ug/kg	2.08	0.728	1	A
Endrin ketone	ND		ug/kg	1.66	0.428	1	A
Dieldrin	ND		ug/kg	1.04	0.520	1	A
4,4'-DDE	ND		ug/kg	1.66	0.385	1	B
4,4'-DDD	ND		ug/kg	1.66	0.593	1	A
4,4'-DDT	ND		ug/kg	3.12	1.34	1	B
Endosulfan I	ND		ug/kg	1.66	0.393	1	A
Endosulfan II	ND		ug/kg	1.66	0.556	1	A
Endosulfan sulfate	ND		ug/kg	0.693	0.330	1	A
Methoxychlor	ND		ug/kg	3.12	0.970	1	A
Toxaphene	ND		ug/kg	31.2	8.73	1	A
cis-Chlordane	ND		ug/kg	2.08	0.579	1	A
trans-Chlordane	ND		ug/kg	2.08	0.549	1	A
Chlordane	ND		ug/kg	13.5	5.51	1	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-03
 Client ID: EP14_S_10_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:00
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	74		30-150	B
2,4,5,6-Tetrachloro-m-xylene	103		30-150	A
Decachlorobiphenyl	108		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-03
 Client ID: EP14_S_10_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:00
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/30/19 15:36
 Analyst: DGM
 Percent Solids: 94%
 Methylation Date: 04/30/19 14:19

Extraction Method: EPA 8151A
 Extraction Date: 04/30/19 04:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	176	11.1	1	A
2,4,5-T	ND		ug/kg	176	5.46	1	A
2,4,5-TP (Silvex)	ND		ug/kg	176	4.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	81		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8151A
 Analytical Date: 04/30/19 16:12
 Analyst: DGM

Extraction Method: EPA 8151A
 Extraction Date: 04/29/19 14:39

Methylation Date: 04/30/19 14:19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1231543-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.03	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	89		30-150	A
DCAA	75		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 04/30/19 10:55
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 04/29/19 18:39
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1231628-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.648	0.290	A
Alpha-BHC	ND		ug/kg	0.648	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.590	A
Heptachlor	ND		ug/kg	0.778	0.349	A
Aldrin	ND		ug/kg	1.56	0.548	A
Heptachlor epoxide	ND		ug/kg	2.92	0.875	A
Endrin	ND		ug/kg	0.648	0.266	A
Endrin aldehyde	ND		ug/kg	1.94	0.681	A
Endrin ketone	ND		ug/kg	1.56	0.401	A
Dieldrin	ND		ug/kg	0.973	0.486	A
4,4'-DDE	ND		ug/kg	1.56	0.360	A
4,4'-DDD	ND		ug/kg	1.56	0.555	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.368	A
Endosulfan II	ND		ug/kg	1.56	0.520	A
Endosulfan sulfate	ND		ug/kg	0.648	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.908	A
Toxaphene	ND		ug/kg	29.2	8.17	A
cis-Chlordane	ND		ug/kg	1.94	0.542	A
trans-Chlordane	ND		ug/kg	1.94	0.514	A
Chlordane	ND		ug/kg	12.6	5.16	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/30/19 10:55
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 04/29/19 18:39
Cleanup Method: EPA 3620B
Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1231628-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	69		30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	101		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1231543-2 WG1231543-3									
2,4-D	106		116		30-150	9		30	A
2,4,5-T	91		91		30-150	0		30	A
2,4,5-TP (Silvex)	95		94		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	94		90		30-150	A
DCAA	86		86		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1231628-2 WG1231628-3									
Delta-BHC	137		133		30-150	3		30	A
Lindane	131		128		30-150	2		30	A
Alpha-BHC	141		137		30-150	3		30	A
Beta-BHC	133		125		30-150	6		30	A
Heptachlor	113		115		30-150	2		30	A
Aldrin	139		132		30-150	5		30	A
Heptachlor epoxide	147		143		30-150	3		30	A
Endrin	145		138		30-150	5		30	A
Endrin aldehyde	118		101		30-150	16		30	A
Endrin ketone	123		110		30-150	11		30	A
Dieldrin	145		138		30-150	5		30	A
4,4'-DDE	139		133		30-150	4		30	A
4,4'-DDD	126		120		30-150	5		30	A
4,4'-DDT	111		105		30-150	6		30	A
Endosulfan I	127		122		30-150	4		30	A
Endosulfan II	130		123		30-150	6		30	A
Endosulfan sulfate	112		104		30-150	7		30	A
Methoxychlor	98		91		30-150	7		30	A
cis-Chlordane	118		114		30-150	3		30	A
trans-Chlordane	107		102		30-150	5		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1231628-2 WG1231628-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	79		77		30-150	B
Decachlorobiphenyl	76		63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	122		114		30-150	A
Decachlorobiphenyl	144		133		30-150	A

METALS

Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-01
 Client ID: EP14_E_14.5_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 09:55
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 93%

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	8.05	2.17	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Antimony, Total	0.410	J	mg/kg	4.02	0.306	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Arsenic, Total	1.13		mg/kg	0.805	0.167	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Barium, Total	42.0		mg/kg	0.805	0.140	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Beryllium, Total	0.145	J	mg/kg	0.402	0.027	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.805	0.079	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Calcium, Total	10800		mg/kg	8.05	2.82	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Chromium, Total	8.14		mg/kg	0.805	0.077	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Cobalt, Total	3.09		mg/kg	1.61	0.134	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Copper, Total	14.4		mg/kg	0.805	0.208	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Iron, Total	6440		mg/kg	4.02	0.727	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Lead, Total	68.6		mg/kg	4.02	0.216	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Magnesium, Total	1660		mg/kg	8.05	1.24	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Manganese, Total	173		mg/kg	0.805	0.128	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Mercury, Total	0.593		mg/kg	0.068	0.014	1	04/30/19 05:20	04/30/19 15:25	EPA 7471B	1,7471B	GD
Nickel, Total	8.15		mg/kg	2.01	0.195	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Potassium, Total	719		mg/kg	201	11.6	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.61	0.208	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.805	0.228	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Sodium, Total	108	J	mg/kg	161	2.54	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.61	0.254	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Vanadium, Total	11.6		mg/kg	0.805	0.163	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
Zinc, Total	36.9		mg/kg	4.02	0.236	2	04/30/19 06:00	04/30/19 09:57	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.1		mg/kg	0.86	0.86	1		04/30/19 09:57	NA	107,-	



Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-02
 Client ID: EP22_15_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:30
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2940		mg/kg	8.24	2.22	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Antimony, Total	1.76	J	mg/kg	4.12	0.313	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Arsenic, Total	0.824		mg/kg	0.824	0.171	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Barium, Total	33.4		mg/kg	0.824	0.143	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Beryllium, Total	0.165	J	mg/kg	0.412	0.027	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.824	0.081	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Calcium, Total	3450		mg/kg	8.24	2.88	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Chromium, Total	8.98		mg/kg	0.824	0.079	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Cobalt, Total	2.97		mg/kg	1.65	0.137	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Copper, Total	14.7		mg/kg	0.824	0.212	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Iron, Total	5930		mg/kg	4.12	0.744	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Lead, Total	45.8		mg/kg	4.12	0.221	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Magnesium, Total	1510		mg/kg	8.24	1.27	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Manganese, Total	152		mg/kg	0.824	0.131	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.067	0.014	1	04/30/19 05:20	04/30/19 15:27	EPA 7471B	1,7471B	GD
Nickel, Total	7.75		mg/kg	2.06	0.199	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Potassium, Total	480		mg/kg	206	11.8	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.65	0.212	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.824	0.233	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Sodium, Total	88.6	J	mg/kg	165	2.59	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.65	0.259	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Vanadium, Total	9.96		mg/kg	0.824	0.167	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
Zinc, Total	20.5		mg/kg	4.12	0.241	2	04/30/19 06:00	04/30/19 10:14	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.0		mg/kg	0.86	0.86	1		04/30/19 10:14	NA	107,-	



Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-03
 Client ID: EP14_S_10_042919
 Sample Location: NY, NY

Date Collected: 04/29/19 14:00
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1680		mg/kg	8.16	2.20	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Antimony, Total	0.620	J	mg/kg	4.08	0.310	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Arsenic, Total	0.416	J	mg/kg	0.816	0.170	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Barium, Total	21.5		mg/kg	0.816	0.142	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Beryllium, Total	0.188	J	mg/kg	0.408	0.027	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.816	0.080	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Calcium, Total	967		mg/kg	8.16	2.86	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Chromium, Total	4.73		mg/kg	0.816	0.078	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Cobalt, Total	2.24		mg/kg	1.63	0.135	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Copper, Total	9.41		mg/kg	0.816	0.210	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Iron, Total	3800		mg/kg	4.08	0.737	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Lead, Total	5.00		mg/kg	4.08	0.219	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Magnesium, Total	857		mg/kg	8.16	1.26	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Manganese, Total	177		mg/kg	0.816	0.130	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.067	0.014	1	04/30/19 05:20	04/30/19 15:29	EPA 7471B	1,7471B	GD
Nickel, Total	5.36		mg/kg	2.04	0.197	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Potassium, Total	330		mg/kg	204	11.7	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.63	0.210	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.816	0.231	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Sodium, Total	40.1	J	mg/kg	163	2.57	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.63	0.257	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Vanadium, Total	6.16		mg/kg	0.816	0.166	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
Zinc, Total	11.6		mg/kg	4.08	0.239	2	04/30/19 06:00	04/30/19 10:19	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.7		mg/kg	0.86	0.86	1		04/30/19 10:19	NA	107,-	



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

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): 01-03 Batch: WG1231761-1									
Aluminum, Total	ND	mg/kg	4.00	1.08	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Antimony, Total	ND	mg/kg	2.00	0.152	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Arsenic, Total	ND	mg/kg	0.400	0.083	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Barium, Total	ND	mg/kg	0.400	0.070	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Beryllium, Total	ND	mg/kg	0.200	0.013	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Cadmium, Total	ND	mg/kg	0.400	0.039	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Calcium, Total	ND	mg/kg	4.00	1.40	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Chromium, Total	ND	mg/kg	0.400	0.038	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Cobalt, Total	ND	mg/kg	0.800	0.066	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Copper, Total	ND	mg/kg	0.400	0.103	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Iron, Total	ND	mg/kg	2.00	0.361	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Lead, Total	ND	mg/kg	2.00	0.107	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Magnesium, Total	ND	mg/kg	4.00	0.616	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Manganese, Total	ND	mg/kg	0.400	0.064	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Nickel, Total	ND	mg/kg	1.00	0.097	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Potassium, Total	ND	mg/kg	100	5.76	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Selenium, Total	ND	mg/kg	0.800	0.103	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Silver, Total	ND	mg/kg	0.400	0.113	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Sodium, Total	ND	mg/kg	80.0	1.26	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Thallium, Total	ND	mg/kg	0.800	0.126	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Vanadium, Total	ND	mg/kg	0.400	0.081	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Zinc, Total	ND	mg/kg	2.00	0.117	1	04/30/19 06:00	04/30/19 09:49	1,6010D	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): 01-03 Batch: WG1231763-1									
Mercury, Total	ND	mg/kg	0.083	0.018	1	04/30/19 05:20	04/30/19 15:09	1,7471B	GD



Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917598

Report Date: 05/08/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1231761-2 SRM Lot Number: D101-540								
Aluminum, Total	58		-		50-151	-		
Antimony, Total	163		-		3-196	-		
Arsenic, Total	101		-		83-117	-		
Barium, Total	97		-		83-118	-		
Beryllium, Total	96		-		83-117	-		
Cadmium, Total	101		-		83-117	-		
Calcium, Total	89		-		81-119	-		
Chromium, Total	102		-		81-118	-		
Cobalt, Total	98		-		84-116	-		
Copper, Total	106		-		83-116	-		
Iron, Total	76		-		62-138	-		
Lead, Total	100		-		83-117	-		
Magnesium, Total	77		-		76-124	-		
Manganese, Total	95		-		82-118	-		
Nickel, Total	100		-		82-117	-		
Potassium, Total	79		-		71-130	-		
Selenium, Total	104		-		79-121	-		
Silver, Total	100		-		80-120	-		
Sodium, Total	91		-		72-127	-		
Thallium, Total	96		-		81-119	-		
Vanadium, Total	88		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917598

Report Date: 05/08/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1231761-2 SRM Lot Number: D101-540					
Zinc, Total	96	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1231763-2 SRM Lot Number: D101-540					
Mercury, Total	115	-	65-135	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1231761-3 QC Sample: L1917598-01 Client ID: EP14_E_14.5_042919												
Aluminum, Total	3000	165	3790	477	Q	-	-		75-125	-		20
Antimony, Total	0.410J	41.4	41.3	100		-	-		75-125	-		20
Arsenic, Total	1.13	9.93	11.5	104		-	-		75-125	-		20
Barium, Total	42.0	165	210	102		-	-		75-125	-		20
Beryllium, Total	0.145J	4.14	3.83	92		-	-		75-125	-		20
Cadmium, Total	ND	4.22	3.79	90		-	-		75-125	-		20
Calcium, Total	10800	827	15600	580	Q	-	-		75-125	-		20
Chromium, Total	8.14	16.5	23.7	94		-	-		75-125	-		20
Cobalt, Total	3.09	41.4	38.6	86		-	-		75-125	-		20
Copper, Total	14.4	20.7	34.5	97		-	-		75-125	-		20
Iron, Total	6440	82.7	6700	314	Q	-	-		75-125	-		20
Lead, Total	68.6	42.2	116	112		-	-		75-125	-		20
Magnesium, Total	1660	827	2610	115		-	-		75-125	-		20
Manganese, Total	173	41.4	252	191	Q	-	-		75-125	-		20
Nickel, Total	8.15	41.4	44.0	87		-	-		75-125	-		20
Potassium, Total	719	827	1610	108		-	-		75-125	-		20
Selenium, Total	ND	9.93	9.67	97		-	-		75-125	-		20
Silver, Total	ND	24.8	22.6	91		-	-		75-125	-		20
Sodium, Total	108J	827	942	114		-	-		75-125	-		20
Thallium, Total	ND	9.93	7.41	75		-	-		75-125	-		20
Vanadium, Total	11.6	41.4	48.2	88		-	-		75-125	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1231761-3 QC Sample: L1917598-01 Client ID: EP14_E_14.5_042919									
Zinc, Total	36.9	41.4	87.6	122	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1231763-3 QC Sample: L1917644-01 Client ID: MS Sample									
Mercury, Total	0.046J	0.16	0.211	132	Q	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917598

Report Date: 05/08/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1231761-4 QC Sample: L1917598-01 Client ID: EP14_E_14.5_042919						
Aluminum, Total	3000	3160	mg/kg	5		20
Antimony, Total	0.410J	0.440J	mg/kg	NC		20
Arsenic, Total	1.13	1.25	mg/kg	10		20
Barium, Total	42.0	35.5	mg/kg	17		20
Beryllium, Total	0.145J	0.147J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	10800	8640	mg/kg	22	Q	20
Chromium, Total	8.14	9.06	mg/kg	11		20
Cobalt, Total	3.09	3.59	mg/kg	15		20
Copper, Total	14.4	15.9	mg/kg	10		20
Iron, Total	6440	6190	mg/kg	4		20
Lead, Total	68.6	59.9	mg/kg	14		20
Magnesium, Total	1660	1850	mg/kg	11		20
Manganese, Total	173	146	mg/kg	17		20
Nickel, Total	8.15	9.07	mg/kg	11		20
Potassium, Total	719	757	mg/kg	5		20
Selenium, Total	ND	0.269J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	108J	113J	mg/kg	NC		20

Lab Duplicate Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917598

Report Date: 05/08/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1231761-4 QC Sample: L1917598-01 Client ID: EP14_E_14.5_042919					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	11.6	9.69	mg/kg	18	20
Zinc, Total	36.9	36.6	mg/kg	1	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1231763-4 QC Sample: L1917644-01 Client ID: DUP Sample					
Mercury, Total	0.046J	0.037J	mg/kg	NC	20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-01
Client ID: EP14_E_14.5_042919
Sample Location: NY, NY

Date Collected: 04/29/19 09:55
Date Received: 04/29/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.4		%	0.100	NA	1	-	04/30/19 03:12	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	04/30/19 05:50	04/30/19 11:10	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.856	0.171	1	04/30/19 04:41	04/30/19 09:36	1,7196A	NH



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-02
Client ID: EP22_15_042919
Sample Location: NY, NY

Date Collected: 04/29/19 14:30
Date Received: 04/29/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.4		%	0.100	NA	1	-	04/30/19 03:12	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	04/30/19 05:50	04/30/19 11:11	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.856	0.171	1	04/30/19 04:41	04/30/19 09:36	1,7196A	NH



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

SAMPLE RESULTS

Lab ID: L1917598-03
Client ID: EP14_S_10_042919
Sample Location: NY, NY

Date Collected: 04/29/19 14:00
Date Received: 04/29/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.5		%	0.100	NA	1	-	04/30/19 03:12	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.1	0.23	1	04/30/19 05:50	04/30/19 11:12	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.856	0.171	1	04/30/19 04:41	04/30/19 09:36	1,7196A	NH



Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

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): 01-03 Batch: WG1231764-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	04/30/19 04:41	04/30/19 09:36	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1231767-1									
Cyanide, Total	ND	mg/kg	0.86	0.18	1	04/30/19 05:50	04/30/19 11:00	1,9010C/9012B	LH

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1231764-2								
Chromium, Hexavalent	93		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1231767-2 WG1231767-3								
Cyanide, Total	79	Q	69	Q	80-120	15		35

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917598

Project Number: 170500202

Report Date: 05/08/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1231764-4 QC Sample: L1917598-03 Client ID: EP14_S_10_042919												
Chromium, Hexavalent	ND	1300	1240	95	-	-	-	-	75-125	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1231767-4 WG1231767-5 QC Sample: L1917599-03 Client ID: MS Sample												
Cyanide, Total	ND	11	10	94	9.6	97	97	97	75-125	4	4	35

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917598

Report Date: 05/08/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1231727-1 QC Sample: L1917577-29 Client ID: DUP Sample						
Solids, Total	77.5	77.6	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1231764-6 QC Sample: L1917598-03 Client ID: EP14_S_10_042919						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Serial_No:05081911:09
Lab Number: L1917598
Report Date: 05/08/19

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1917598-01A	Vial MeOH preserved	A	NA		3.7	Y	Absent		NYTCL-8260HLW(14)
L1917598-01B	Vial water preserved	A	NA		3.7	Y	Absent	30-APR-19 02:26	NYTCL-8260HLW(14)
L1917598-01C	Vial water preserved	A	NA		3.7	Y	Absent	30-APR-19 02:26	NYTCL-8260HLW(14)
L1917598-01D	Plastic 2oz unpreserved for TS	A	NA		3.7	Y	Absent		TS(7)
L1917598-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.7	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)
L1917598-01F	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1917598-01G	Glass 500ml/16oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1917598-02A	Vial MeOH preserved	A	NA		3.7	Y	Absent		NYTCL-8260HLW(14)
L1917598-02B	Vial water preserved	A	NA		3.7	Y	Absent	30-APR-19 02:26	NYTCL-8260HLW(14)
L1917598-02C	Vial water preserved	A	NA		3.7	Y	Absent	30-APR-19 02:26	NYTCL-8260HLW(14)
L1917598-02D	Plastic 2oz unpreserved for TS	A	NA		3.7	Y	Absent		TS(7)
L1917598-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.7	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)
L1917598-02F	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1917598-02G	Glass 500ml/16oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1917598-03A	Vial MeOH preserved	A	NA		3.7	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Serial_No:05081911:09
Lab Number: L1917598
Report Date: 05/08/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1917598-03B	Vial water preserved	A	NA		3.7	Y	Absent	30-APR-19 02:26	NYTCL-8260HLW(14)
L1917598-03C	Vial water preserved	A	NA		3.7	Y	Absent	30-APR-19 02:26	NYTCL-8260HLW(14)
L1917598-03D	Plastic 2oz unpreserved for TS	A	NA		3.7	Y	Absent		TS(7)
L1917598-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.7	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)
L1917598-03F	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1917598-03G	Glass 500ml/16oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1917598-04A	Vial MeOH preserved	A	NA		3.7	Y	Absent		HOLD-8260HLW(14)
L1917598-04B	Vial water preserved	A	NA		3.7	Y	Absent	30-APR-19 02:26	HOLD-8260HLW(14)
L1917598-04C	Vial water preserved	A	NA		3.7	Y	Absent	30-APR-19 02:26	HOLD-8260HLW(14)
L1917598-04D	Plastic 2oz unpreserved for TS	A	NA		3.7	Y	Absent		HOLD-CONTINGENCY(14)
L1917598-04E	Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		HOLD-METAL(180)
L1917598-04F	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		HOLD-CONTINGENCY(14)
L1917598-04G	Glass 500ml/16oz unpreserved	A	NA		3.7	Y	Absent		HOLD-CONTINGENCY(14)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

- 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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917598
Report Date: 05/08/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	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		Date Rec'd in Lab	4/29/19	ALPHA Job #	L1917598	
		of							
Client Information Client: <u>LANGRAN, DPC</u> Address: <u>[redacted]</u> Phone: <u>[redacted]</u> Fax: <u>[redacted]</u> Email: <u>G.WYKA@LANGRAN.COM</u>		Project Information Project Name: <u>300 West 122nd St.</u> Project Location: <u>NY, NY</u> Project # <u>170500202</u> (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #			
Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:		Turn-Around Time Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days: <u>1 day</u>					
These samples have been previously analyzed by Alpha <input type="checkbox"/>		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			Total Bottles		
Other project specific requirements/comments: <u>HOLD EPI4_S-14.5-042919</u>		Please specify Metals or TAL.		Part 375/TCL VOCs SVOCs PCBs Pest/herbs. TAL Metals + hex/air chmn. + isot. cyanide					
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials				
17598-01	EPI4-E-14.5-042919	4/29	09:55	SOIL	AS	X	X	X	
02	EP22-15-042919	↓	1430	↓	↓	X	X	X	
03	EPI4-S-10-042919	↓	1400	↓	↓	X	X	X	
04	EPI4-S-14.5-042919 #1000	↓	0945	↓	↓	X	X	X	
05	EPI4-E-14.5-042919	↓	0955	↓	↓	X	X	X	
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>Ashley [signature]</u>		Date/Time: <u>4/29/19 1533</u>		Received By: <u>Renee [signature]</u>		Date/Time: <u>4/29 1535</u>			
Relinquished By: <u>[signature]</u>		Date/Time: <u>4/29/19 1710</u>		Received By: <u>[signature]</u>		Date/Time: <u>4/29 1915</u>			
Relinquished By: <u>[signature]</u>		Date/Time: <u>4/29/19 2345</u>		Received By: <u>[signature]</u>		Date/Time: <u>4/29/19 2345</u>			



ANALYTICAL REPORT

Lab Number:	L1918068
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	05/09/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1918068-01	EP15_11.5_050119	SOIL	NY, NY	05/01/19 15:25	05/01/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

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.

Total Metals

L1918068-01: 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.

Cyanide, Total

The WG1233001-2/-3 LCS/LCSD recoveries (64%/72%), associated with L1918068-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 05/09/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

SAMPLE RESULTS

Lab ID: L1918068-01
 Client ID: EP15_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 15:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 05/06/19 16:27
 Analyst: PK
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.23	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.63	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

SAMPLE RESULTS

Lab ID: L1918068-01
 Client ID: EP15_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 15:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.65	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.0	1
Acetone	21		ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.2	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.12	1
Naphthalene	ND		ug/kg	4.6	0.75	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

SAMPLE RESULTS

Lab ID: L1918068-01
 Client ID: EP15_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 15:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	92	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 05/06/19 11:16
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1234007-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/06/19 11:16
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1234007-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/06/19 11:16
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1234007-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1234007-3 WG1234007-4								
Methylene chloride	107		101		70-130	6		30
1,1-Dichloroethane	113		109		70-130	4		30
Chloroform	102		98		70-130	4		30
Carbon tetrachloride	99		95		70-130	4		30
1,2-Dichloropropane	110		107		70-130	3		30
Dibromochloromethane	94		89		70-130	5		30
1,1,2-Trichloroethane	96		92		70-130	4		30
Tetrachloroethene	94		89		70-130	5		30
Chlorobenzene	92		88		70-130	4		30
Trichlorofluoromethane	84		80		70-139	5		30
1,2-Dichloroethane	105		100		70-130	5		30
1,1,1-Trichloroethane	101		95		70-130	6		30
Bromodichloromethane	103		98		70-130	5		30
trans-1,3-Dichloropropene	98		95		70-130	3		30
cis-1,3-Dichloropropene	109		104		70-130	5		30
1,1-Dichloropropene	108		101		70-130	7		30
Bromoform	86		83		70-130	4		30
1,1,1,2-Tetrachloroethane	88		84		70-130	5		30
Benzene	106		102		70-130	4		30
Toluene	94		90		70-130	4		30
Ethylbenzene	93		87		70-130	7		30
Chloromethane	128		119		52-130	7		30
Bromomethane	48	Q	46	Q	57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1234007-3 WG1234007-4								
Vinyl chloride	110		102		67-130	8		30
Chloroethane	93		86		50-151	8		30
1,1-Dichloroethene	111		107		65-135	4		30
trans-1,2-Dichloroethene	106		102		70-130	4		30
Trichloroethene	102		97		70-130	5		30
1,2-Dichlorobenzene	89		86		70-130	3		30
1,3-Dichlorobenzene	89		84		70-130	6		30
1,4-Dichlorobenzene	89		85		70-130	5		30
Methyl tert butyl ether	104		102		66-130	2		30
p/m-Xylene	93		88		70-130	6		30
o-Xylene	91		87		70-130	4		30
cis-1,2-Dichloroethene	105		100		70-130	5		30
Dibromomethane	99		98		70-130	1		30
Styrene	91		87		70-130	4		30
Dichlorodifluoromethane	120		114		30-146	5		30
Acetone	114		108		54-140	5		30
Carbon disulfide	111		105		59-130	6		30
2-Butanone	108		101		70-130	7		30
Vinyl acetate	112		108		70-130	4		30
4-Methyl-2-pentanone	94		89		70-130	5		30
1,2,3-Trichloropropane	87		82		68-130	6		30
2-Hexanone	86		81		70-130	6		30
Bromochloromethane	109		105		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1234007-3 WG1234007-4								
2,2-Dichloropropane	107		99		70-130	8		30
1,2-Dibromoethane	94		90		70-130	4		30
1,3-Dichloropropane	95		92		69-130	3		30
1,1,1,2-Tetrachloroethane	93		89		70-130	4		30
Bromobenzene	88		84		70-130	5		30
n-Butylbenzene	90		84		70-130	7		30
sec-Butylbenzene	89		83		70-130	7		30
tert-Butylbenzene	87		83		70-130	5		30
o-Chlorotoluene	91		86		70-130	6		30
p-Chlorotoluene	90		85		70-130	6		30
1,2-Dibromo-3-chloropropane	84		81		68-130	4		30
Hexachlorobutadiene	92		84		67-130	9		30
Isopropylbenzene	87		83		70-130	5		30
p-Isopropyltoluene	89		84		70-130	6		30
Naphthalene	81		77		70-130	5		30
Acrylonitrile	112		103		70-130	8		30
n-Propylbenzene	89		84		70-130	6		30
1,2,3-Trichlorobenzene	88		85		70-130	3		30
1,2,4-Trichlorobenzene	89		85		70-130	5		30
1,3,5-Trimethylbenzene	90		85		70-130	6		30
1,2,4-Trimethylbenzene	89		84		70-130	6		30
1,4-Dioxane	96		90		65-136	6		30
p-Diethylbenzene	90		85		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1234007-3 WG1234007-4								
p-Ethyltoluene	91		86		70-130	6		30
1,2,4,5-Tetramethylbenzene	86		82		70-130	5		30
Ethyl ether	113		111		67-130	2		30
trans-1,4-Dichloro-2-butene	87		92		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	102		101		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

SAMPLE RESULTS

Lab ID: L1918068-01
 Client ID: EP15_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 15:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/09/19 00:26
 Analyst: IM
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 05/05/19 17:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

SAMPLE RESULTS

Lab ID: L1918068-01
 Client ID: EP15_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 15:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	37.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	34.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

SAMPLE RESULTS

Lab ID: L1918068-01
 Client ID: EP15_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 15:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	89		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/08/19 22:20
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/05/19 16:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1233824-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/08/19 22:20
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/05/19 16:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1233824-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 05/08/19 22:20
 Analyst: IM

Extraction Method: EPA 3546
 Extraction Date: 05/05/19 16:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1233824-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	92		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1233824-2 WG1233824-3								
Acenaphthene	68		63		31-137	8		50
1,2,4-Trichlorobenzene	72		64		38-107	12		50
Hexachlorobenzene	76		70		40-140	8		50
Bis(2-chloroethyl)ether	67		60		40-140	11		50
2-Chloronaphthalene	77		70		40-140	10		50
1,2-Dichlorobenzene	67		59		40-140	13		50
1,3-Dichlorobenzene	65		58		40-140	11		50
1,4-Dichlorobenzene	65		58		28-104	11		50
3,3'-Dichlorobenzidine	59		57		40-140	3		50
2,4-Dinitrotoluene	82		74		40-132	10		50
2,6-Dinitrotoluene	86		79		40-140	8		50
Fluoranthene	85		77		40-140	10		50
4-Chlorophenyl phenyl ether	71		65		40-140	9		50
4-Bromophenyl phenyl ether	75		68		40-140	10		50
Bis(2-chloroisopropyl)ether	58		51		40-140	13		50
Bis(2-chloroethoxy)methane	72		65		40-117	10		50
Hexachlorobutadiene	74		65		40-140	13		50
Hexachlorocyclopentadiene	84		75		40-140	11		50
Hexachloroethane	68		61		40-140	11		50
Isophorone	78		70		40-140	11		50
Naphthalene	72		66		40-140	9		50
Nitrobenzene	76		69		40-140	10		50
NDPA/DPA	75		68		36-157	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1233824-2 WG1233824-3								
n-Nitrosodi-n-propylamine	76		68		32-121	11		50
Bis(2-ethylhexyl)phthalate	76		68		40-140	11		50
Butyl benzyl phthalate	84		76		40-140	10		50
Di-n-butylphthalate	90		82		40-140	9		50
Di-n-octylphthalate	85		74		40-140	14		50
Diethyl phthalate	74		68		40-140	8		50
Dimethyl phthalate	84		78		40-140	7		50
Benzo(a)anthracene	83		73		40-140	13		50
Benzo(a)pyrene	82		73		40-140	12		50
Benzo(b)fluoranthene	86		77		40-140	11		50
Benzo(k)fluoranthene	84		74		40-140	13		50
Chrysene	74		66		40-140	11		50
Acenaphthylene	84		78		40-140	7		50
Anthracene	81		74		40-140	9		50
Benzo(ghi)perylene	83		73		40-140	13		50
Fluorene	73		66		40-140	10		50
Phenanthrene	75		69		40-140	8		50
Dibenzo(a,h)anthracene	84		74		40-140	13		50
Indeno(1,2,3-cd)pyrene	72		64		40-140	12		50
Pyrene	83		75		35-142	10		50
Biphenyl	79		73		54-104	8		50
4-Chloroaniline	54		60		40-140	11		50
2-Nitroaniline	86		81		47-134	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1233824-2 WG1233824-3								
3-Nitroaniline	61		61		26-129	0		50
4-Nitroaniline	76		67		41-125	13		50
Dibenzofuran	69		63		40-140	9		50
2-Methylnaphthalene	76		70		40-140	8		50
1,2,4,5-Tetrachlorobenzene	80		73		40-117	9		50
Acetophenone	79		70		14-144	12		50
2,4,6-Trichlorophenol	94		86		30-130	9		50
p-Chloro-m-cresol	85		79		26-103	7		50
2-Chlorophenol	76		68		25-102	11		50
2,4-Dichlorophenol	84		76		30-130	10		50
2,4-Dimethylphenol	78		71		30-130	9		50
2-Nitrophenol	86		78		30-130	10		50
4-Nitrophenol	78		68		11-114	14		50
2,4-Dinitrophenol	91		81		4-130	12		50
4,6-Dinitro-o-cresol	102		93		10-130	9		50
Pentachlorophenol	81		72		17-109	12		50
Phenol	74		67		26-90	10		50
2-Methylphenol	76		70		30-130.	8		50
3-Methylphenol/4-Methylphenol	78		72		30-130	8		50
2,4,5-Trichlorophenol	90		83		30-130	8		50
Benzoic Acid	86		56		10-110	42		50
Benzyl Alcohol	76		70		40-140	8		50
Carbazole	82		75		54-128	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1233824-2 WG1233824-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	79		68		25-120
Phenol-d6	78		67		10-120
Nitrobenzene-d5	86		74		23-120
2-Fluorobiphenyl	82		73		30-120
2,4,6-Tribromophenol	93		80		10-136
4-Terphenyl-d14	89		77		18-120

PCBS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

SAMPLE RESULTS

Lab ID: L1918068-01
Client ID: EP15_11.5_050119
Sample Location: NY, NY

Date Collected: 05/01/19 15:25
Date Received: 05/01/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/07/19 18:51
Analyst: HT
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 05/05/19 19:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/06/19
Cleanup Method: EPA 3660B
Cleanup Date: 05/06/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.1	3.03	1	A
Aroclor 1221	ND		ug/kg	34.1	3.42	1	A
Aroclor 1232	ND		ug/kg	34.1	7.23	1	A
Aroclor 1242	ND		ug/kg	34.1	4.60	1	A
Aroclor 1248	ND		ug/kg	34.1	5.12	1	A
Aroclor 1254	ND		ug/kg	34.1	3.73	1	A
Aroclor 1260	ND		ug/kg	34.1	6.30	1	A
Aroclor 1262	ND		ug/kg	34.1	4.33	1	A
Aroclor 1268	ND		ug/kg	34.1	3.53	1	A
PCBs, Total	ND		ug/kg	34.1	3.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 05/07/19 06:29
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 05/05/19 18:53
Cleanup Method: EPA 3665A
Cleanup Date: 05/06/19
Cleanup Method: EPA 3660B
Cleanup Date: 05/06/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1233831-1						
Aroclor 1016	ND		ug/kg	31.8	2.82	A
Aroclor 1221	ND		ug/kg	31.8	3.19	A
Aroclor 1232	ND		ug/kg	31.8	6.74	A
Aroclor 1242	ND		ug/kg	31.8	4.29	A
Aroclor 1248	ND		ug/kg	31.8	4.77	A
Aroclor 1254	ND		ug/kg	31.8	3.48	A
Aroclor 1260	ND		ug/kg	31.8	5.88	A
Aroclor 1262	ND		ug/kg	31.8	4.04	A
Aroclor 1268	ND		ug/kg	31.8	3.30	A
PCBs, Total	ND		ug/kg	31.8	2.82	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	77		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1233831-2 WG1233831-3									
Aroclor 1016	75		72		40-140	4		50	A
Aroclor 1260	74		72		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		64		30-150	A
Decachlorobiphenyl	74		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		67		30-150	B
Decachlorobiphenyl	79		77		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

SAMPLE RESULTS

Lab ID: L1918068-01
 Client ID: EP15_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 15:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 05/07/19 13:23
 Analyst: SL
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 05/05/19 21:15
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/07/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.60	0.313	1	A
Lindane	ND		ug/kg	0.666	0.298	1	A
Alpha-BHC	ND		ug/kg	0.666	0.189	1	A
Beta-BHC	ND		ug/kg	1.60	0.606	1	A
Heptachlor	ND		ug/kg	0.799	0.358	1	A
Aldrin	ND		ug/kg	1.60	0.562	1	A
Heptachlor epoxide	ND		ug/kg	3.00	0.899	1	A
Endrin	ND		ug/kg	0.666	0.273	1	A
Endrin aldehyde	ND		ug/kg	2.00	0.699	1	A
Endrin ketone	ND		ug/kg	1.60	0.411	1	A
Dieldrin	ND		ug/kg	0.998	0.499	1	A
4,4'-DDE	ND		ug/kg	1.60	0.369	1	A
4,4'-DDD	ND		ug/kg	1.60	0.570	1	A
4,4'-DDT	ND		ug/kg	3.00	1.28	1	A
Endosulfan I	ND		ug/kg	1.60	0.377	1	A
Endosulfan II	ND		ug/kg	1.60	0.534	1	A
Endosulfan sulfate	ND		ug/kg	0.666	0.317	1	A
Methoxychlor	ND		ug/kg	3.00	0.932	1	A
Toxaphene	ND		ug/kg	30.0	8.39	1	A
cis-Chlordane	ND		ug/kg	2.00	0.556	1	A
trans-Chlordane	ND		ug/kg	2.00	0.527	1	A
Chlordane	ND		ug/kg	13.0	5.29	1	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

SAMPLE RESULTS

Lab ID: L1918068-01
 Client ID: EP15_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 15:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	94		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

SAMPLE RESULTS

Lab ID: L1918068-01
 Client ID: EP15_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 15:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 05/05/19 12:37
 Analyst: DGM
 Percent Solids: 95%
 Methylation Date: 05/04/19 20:10

Extraction Method: EPA 8151A
 Extraction Date: 05/04/19 01:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	172	10.9	1	A
2,4,5-T	ND		ug/kg	172	5.34	1	A
2,4,5-TP (Silvex)	ND		ug/kg	172	4.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	81		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/05/19 13:53
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 05/04/19 01:13

Methylation Date: 05/04/19 20:10

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1233541-1						
2,4-D	ND		ug/kg	165	10.4	A
2,4,5-T	ND		ug/kg	165	5.12	A
2,4,5-TP (Silvex)	ND		ug/kg	165	4.39	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	76		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/07/19 12:45
Analyst: SL

Extraction Method: EPA 3546
Extraction Date: 05/05/19 21:15
Cleanup Method: EPA 3620B
Cleanup Date: 05/07/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1233839-1						
Delta-BHC	ND		ug/kg	1.58	0.309	A
Lindane	ND		ug/kg	0.657	0.294	A
Alpha-BHC	ND		ug/kg	0.657	0.186	A
Beta-BHC	ND		ug/kg	1.58	0.598	A
Heptachlor	ND		ug/kg	0.788	0.353	A
Aldrin	ND		ug/kg	1.58	0.555	A
Heptachlor epoxide	ND		ug/kg	2.96	0.887	A
Endrin	ND		ug/kg	0.657	0.269	A
Endrin aldehyde	ND		ug/kg	1.97	0.690	A
Endrin ketone	ND		ug/kg	1.58	0.406	A
Dieldrin	ND		ug/kg	0.986	0.493	A
4,4'-DDE	ND		ug/kg	1.58	0.365	A
4,4'-DDD	ND		ug/kg	1.58	0.562	A
4,4'-DDT	ND		ug/kg	2.96	1.27	A
Endosulfan I	ND		ug/kg	1.58	0.372	A
Endosulfan II	ND		ug/kg	1.58	0.527	A
Endosulfan sulfate	ND		ug/kg	0.657	0.313	A
Methoxychlor	ND		ug/kg	2.96	0.920	A
Toxaphene	ND		ug/kg	29.6	8.28	A
cis-Chlordane	ND		ug/kg	1.97	0.549	A
trans-Chlordane	ND		ug/kg	1.97	0.520	A
Chlordane	ND		ug/kg	12.8	5.22	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 05/07/19 12:45
 Analyst: SL

Extraction Method: EPA 3546
 Extraction Date: 05/05/19 21:15
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/07/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1233839-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	99		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	100		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1233541-2 WG1233541-3									
2,4-D	93		91		30-150	2		30	A
2,4,5-T	99		96		30-150	3		30	A
2,4,5-TP (Silvex)	94		92		30-150	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	83		81		30-150	A
DCAA	73		71		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1233839-2 WG1233839-3									
Delta-BHC	67		70		30-150	4		30	A
Lindane	68		72		30-150	6		30	A
Alpha-BHC	72		76		30-150	5		30	A
Beta-BHC	72		76		30-150	5		30	A
Heptachlor	87		78		30-150	11		30	A
Aldrin	74		78		30-150	5		30	A
Heptachlor epoxide	77		78		30-150	1		30	A
Endrin	75		78		30-150	4		30	A
Endrin aldehyde	66		62		30-150	6		30	A
Endrin ketone	72		79		30-150	9		30	A
Dieldrin	79		82		30-150	4		30	A
4,4'-DDE	76		79		30-150	4		30	A
4,4'-DDD	76		78		30-150	3		30	A
4,4'-DDT	79		81		30-150	3		30	A
Endosulfan I	72		75		30-150	4		30	A
Endosulfan II	73		77		30-150	5		30	A
Endosulfan sulfate	71		78		30-150	9		30	A
Methoxychlor	72		76		30-150	5		30	A
cis-Chlordane	66		68		30-150	3		30	A
trans-Chlordane	61		62		30-150	2		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1233839-2 WG1233839-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	73		72		30-150	B
Decachlorobiphenyl	67		65		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		91		30-150	A
Decachlorobiphenyl	100		97		30-150	A

METALS

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

SAMPLE RESULTS

Lab ID: L1918068-01
 Client ID: EP15_11.5_050119
 Sample Location: NY, NY

Date Collected: 05/01/19 15:25
 Date Received: 05/01/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1650		mg/kg	8.08	2.18	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.04	0.307	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Arsenic, Total	0.501	J	mg/kg	0.808	0.168	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Barium, Total	26.1		mg/kg	0.808	0.140	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Beryllium, Total	0.137	J	mg/kg	0.404	0.027	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Cadmium, Total	0.105	J	mg/kg	0.808	0.079	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Calcium, Total	749		mg/kg	8.08	2.83	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Chromium, Total	3.82		mg/kg	0.808	0.078	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Cobalt, Total	2.38		mg/kg	1.62	0.134	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Copper, Total	12.8		mg/kg	0.808	0.208	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Iron, Total	4300		mg/kg	4.04	0.730	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Lead, Total	4.65		mg/kg	4.04	0.216	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Magnesium, Total	1250		mg/kg	8.08	1.24	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Manganese, Total	153		mg/kg	0.808	0.128	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.066	0.014	1	05/02/19 08:20	05/02/19 11:18	EPA 7471B	1,7471B	GD
Nickel, Total	6.13		mg/kg	2.02	0.196	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Potassium, Total	505		mg/kg	202	11.6	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.62	0.208	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.808	0.229	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Sodium, Total	74.1	J	mg/kg	162	2.54	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.62	0.254	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Vanadium, Total	8.71		mg/kg	0.808	0.164	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
Zinc, Total	9.53		mg/kg	4.04	0.237	2	05/02/19 07:45	05/02/19 14:23	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.8		mg/kg	0.84	0.84	1		05/03/19 17:00	NA	107,-	



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

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): 01 Batch: WG1232730-1									
Mercury, Total	ND	mg/kg	0.083	0.018	1	05/02/19 08:20	05/02/19 10:41	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1232740-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Antimony, Total	ND	mg/kg	2.00	0.152	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Barium, Total	ND	mg/kg	0.400	0.070	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Calcium, Total	ND	mg/kg	4.00	1.40	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Chromium, Total	ND	mg/kg	0.400	0.038	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Copper, Total	ND	mg/kg	0.400	0.103	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Iron, Total	0.684	J	mg/kg	2.00	0.361	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Manganese, Total	0.304	J	mg/kg	0.400	0.064	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC
Nickel, Total	ND	mg/kg	1.00	0.097	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Potassium, Total	ND	mg/kg	100	5.76	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Selenium, Total	ND	mg/kg	0.800	0.103	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Silver, Total	ND	mg/kg	0.400	0.113	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Sodium, Total	10.9	J	mg/kg	80.0	1.26	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC
Thallium, Total	ND	mg/kg	0.800	0.126	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	
Zinc, Total	ND	mg/kg	2.00	0.117	1	05/02/19 07:45	05/02/19 10:00	1,6010D	LC	

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1232730-2 SRM Lot Number: D101-540								
Mercury, Total	101		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1232740-2 SRM Lot Number: D101-540					
Aluminum, Total	67	-	50-151	-	
Antimony, Total	157	-	3-196	-	
Arsenic, Total	109	-	83-117	-	
Barium, Total	92	-	83-118	-	
Beryllium, Total	94	-	83-117	-	
Cadmium, Total	98	-	83-117	-	
Calcium, Total	92	-	81-119	-	
Chromium, Total	96	-	81-118	-	
Cobalt, Total	101	-	84-116	-	
Copper, Total	98	-	83-116	-	
Iron, Total	89	-	62-138	-	
Lead, Total	104	-	83-117	-	
Magnesium, Total	86	-	76-124	-	
Manganese, Total	90	-	82-118	-	
Nickel, Total	101	-	82-117	-	
Potassium, Total	86	-	71-130	-	
Selenium, Total	104	-	79-121	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	92	-	72-127	-	
Thallium, Total	102	-	81-119	-	
Vanadium, Total	97	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1232740-2 SRM Lot Number: D101-540					
Zinc, Total	103	-	81-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232730-3 QC Sample: L1918000-01 Client ID: MS Sample												
Mercury, Total	0.089	0.163	0.249	98		-	-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232740-3 QC Sample: L1918000-01 Client ID: MS Sample									
Aluminum, Total	9930	161	11100	728	Q	-	75-125	-	20
Antimony, Total	126	40.2	173	117		-	75-125	-	20
Arsenic, Total	82.9	9.65	91.3	87		-	75-125	-	20
Barium, Total	384	161	589	128	Q	-	75-125	-	20
Beryllium, Total	0.243J	4.02	4.00	100		-	75-125	-	20
Cadmium, Total	22.3	4.1	25.4	76		-	75-125	-	20
Calcium, Total	10100	804	11100	124		-	75-125	-	20
Chromium, Total	927	16.1	889	0	Q	-	75-125	-	20
Cobalt, Total	40.8	40.2	74.3	83		-	75-125	-	20
Copper, Total	5280	20.1	5420	696	Q	-	75-125	-	20
Iron, Total	304000	80.4	301000	0	Q	-	75-125	-	20
Lead, Total	897	41	934	90		-	75-125	-	20
Magnesium, Total	2740	804	3460	90		-	75-125	-	20
Manganese, Total	16100	40.2	16100	0	Q	-	75-125	-	20
Nickel, Total	2100	40.2	2120	50	Q	-	75-125	-	20
Potassium, Total	6210	804	7490	159	Q	-	75-125	-	20
Selenium, Total	3.99	9.65	12.0	83		-	75-125	-	20
Silver, Total	33.2	24.1	60.7	114		-	75-125	-	20
Sodium, Total	11200	804	12900	211	Q	-	75-125	-	20
Thallium, Total	12.2	9.65	18.6	66	Q	-	75-125	-	20
Vanadium, Total	84.8	40.2	123	95		-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits	
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232740-3 QC Sample: L1918000-01 Client ID: MS Sample										
Zinc, Total	36600	40.2	37800	2980	Q	-	-	75-125	-	20

Lab Duplicate Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232730-4 QC Sample: L1918000-01 Client ID: DUP Sample						
Mercury, Total	0.089	0.087	mg/kg	2		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232740-4 QC Sample: L1918000-01 Client ID: DUP Sample						
Aluminum, Total	9930	9550	mg/kg	4		20
Antimony, Total	126	126	mg/kg	0		20
Arsenic, Total	82.9	75.9	mg/kg	9		20
Barium, Total	384	334	mg/kg	14		20
Beryllium, Total	0.243J	0.216J	mg/kg	NC		20
Cadmium, Total	22.3	21.9	mg/kg	2		20
Calcium, Total	10100	9220	mg/kg	9		20
Cobalt, Total	40.8	39.2	mg/kg	4		20
Lead, Total	897	878	mg/kg	2		20
Magnesium, Total	2740	2660	mg/kg	3		20
Nickel, Total	2100	2040	mg/kg	3		20
Potassium, Total	6210	5870	mg/kg	6		20
Selenium, Total	3.99	3.69	mg/kg	8		20
Silver, Total	33.2	31.6	mg/kg	5		20
Sodium, Total	11200	10700	mg/kg	5		20
Thallium, Total	12.2	11.7	mg/kg	4		20
Vanadium, Total	84.8	77.6	mg/kg	9		20



Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1918068

Report Date: 05/09/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232740-4 QC Sample: L1918000-01 Client ID: DUP Sample					
Chromium, Total	927	993	mg/kg	7	20
Copper, Total	5280	5740	mg/kg	8	20
Iron, Total	304000	325000	mg/kg	7	20
Manganese, Total	16100	16700	mg/kg	4	20
Zinc, Total	36600	39500	mg/kg	8	20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

SAMPLE RESULTS

Lab ID: L1918068-01

Date Collected: 05/01/19 15:25

Client ID: EP15_11.5_050119

Date Received: 05/01/19

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.2		%	0.100	NA	1	-	05/02/19 03:22	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.21	1	05/02/19 18:50	05/03/19 15:23	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.840	0.168	1	05/03/19 11:20	05/03/19 17:00	1,7196A	NH



Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

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): 01 Batch: WG1233001-1									
Cyanide, Total	ND	mg/kg	0.85	0.18	1	05/02/19 18:50	05/03/19 15:00	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1233321-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	05/03/19 11:20	05/03/19 17:00	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1918068

Report Date: 05/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1233001-2 WG1233001-3								
Cyanide, Total	64	Q	72	Q	80-120	20		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1233321-2								
Chromium, Hexavalent	104		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1918068

Project Number: 170500202

Report Date: 05/09/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1233001-4 WG1233001-5 QC Sample: L1918083-01 Client ID: MS Sample												
Cyanide, Total	ND	11	11	100		11	100		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1233321-4 QC Sample: L1918068-01 Client ID: EP15_11.5_050119												
Chromium, Hexavalent	ND	1140	1280	112		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1918068

Report Date: 05/09/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1232658-1 QC Sample: L1918035-02 Client ID: DUP Sample						
Solids, Total	91.5	88.1	%	4		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1233321-6 QC Sample: L1918068-01 Client ID: EP15_11.5_050119						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Serial_No:05091915:00
Lab Number: L1918068
Report Date: 05/09/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1918068-01A	Vial MeOH preserved	A	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L1918068-01B	Vial water preserved	A	NA		3.0	Y	Absent	02-MAY-19 02:46	NYTCL-8260HLW(14)
L1918068-01C	Vial water preserved	A	NA		3.0	Y	Absent	02-MAY-19 02:46	NYTCL-8260HLW(14)
L1918068-01D	Plastic 2oz unpreserved for TS	A	NA		3.0	Y	Absent		TS(7)
L1918068-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	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)
L1918068-01F	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1918068-01G	Glass 500ml/16oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

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GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

- 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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1918068
Report Date: 05/09/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water


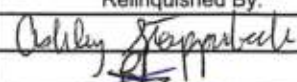
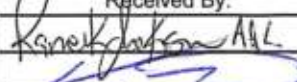

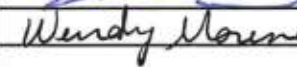

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01561 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	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 5/1/19	11988068 ALPHA Job # 11918076 WTM												
		Project Information Project Name: 300 West 122nd St. Project Location: NY, NY Project # 170500202 (Use Project name as Project #) <input type="checkbox"/>		Deliverables: <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #											
Client Information Client: LANGAN, DPC Address: 360 West 31st St, 8th Floor NY, NY 10001 Phone: 212-479-5400 Fax: Email: G.WYKA@LANGAN.COM		Project Manager: Greg Wyka ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other TCL <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:											
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: <div style="text-align: center; font-size: 24px; font-weight: bold;">STANDARD TAT</div> Please specify Metals or TAL.		ANALYSIS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%; text-align: center;">Part 375/TCL</td> <td style="width:10%; text-align: center;">VOCs</td> <td style="width:10%; text-align: center;">SVOCs</td> <td style="width:10%; text-align: center;">PCBs</td> <td style="width:10%; text-align: center;">pest/Herb.</td> <td style="width:10%; text-align: center;">TAL metals - hex/hi chro. + nitro/arsenide</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> </table>		Part 375/TCL	VOCs	SVOCs	PCBs	pest/Herb.	TAL metals - hex/hi chro. + nitro/arsenide	X	X	X	X	X	X	Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments	
Part 375/TCL	VOCs	SVOCs	PCBs	pest/Herb.	TAL metals - hex/hi chro. + nitro/arsenide												
X	X	X	X	X	X												
ALPHA Lab ID (Lab Use Only) 18078 - 01	Sample ID EP15-11.5-05019	Collection Date 5/1/19	Collection Time 1525	Sample Matrix SOIL	Sampler's Initials AS												
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											
Relinquished By: 		Date/Time 5/1/19 1630		Received By: 		Date/Time 5/1/19 23:50											
Relinquished By: 		Date/Time 5/1/19 1905		Received By: 		Date/Time 5/1/19 1938											
Relinquished By: 		Date/Time 5/1/19 2358		Received By: Wendy Mounsey		Date/Time 5/1/19 23:50											

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.)

Total Bottles



ANALYTICAL REPORT

Lab Number:	L1929474
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	07/09/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1929474-01	EP18_3.5_070819	SOIL	NY, NY 10027	07/08/19 07:40	07/08/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

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.

Volatile Organics

L1929474-01: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L1929474-01: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (163%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

Total Metals

L1929474-01: 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.

Cyanide, Total

The WG1257312-2/-3 LCS/LCSD recoveries (65%/28%), associated with L1929474-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1257312-2/-3 LCS/LCSD RPD (77%), associated with L1929474-01, is above the acceptance criteria.

Hexavalent Chromium

The WG1257326-5 Soluble MS recovery (69%), performed on L1929474-01, was outside the acceptance criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 100%.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 07/09/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

SAMPLE RESULTS

Lab ID: L1929474-01
 Client ID: EP18_3.5_070819
 Sample Location: NY, NY 10027

Date Collected: 07/08/19 07:40
 Date Received: 07/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/09/19 07:29
 Analyst: MV
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	310	140	1
1,1-Dichloroethane	ND		ug/kg	62	9.0	1
Chloroform	ND		ug/kg	93	8.6	1
Carbon tetrachloride	ND		ug/kg	62	14.	1
1,2-Dichloropropane	ND		ug/kg	62	7.7	1
Dibromochloromethane	ND		ug/kg	62	8.6	1
1,1,2-Trichloroethane	ND		ug/kg	62	16.	1
Tetrachloroethene	ND		ug/kg	31	12.	1
Chlorobenzene	ND		ug/kg	31	7.8	1
Trichlorofluoromethane	ND		ug/kg	250	43.	1
1,2-Dichloroethane	ND		ug/kg	62	16.	1
1,1,1-Trichloroethane	ND		ug/kg	31	10.	1
Bromodichloromethane	ND		ug/kg	31	6.7	1
trans-1,3-Dichloropropene	ND		ug/kg	62	17.	1
cis-1,3-Dichloropropene	ND		ug/kg	31	9.8	1
1,3-Dichloropropene, Total	ND		ug/kg	31	9.8	1
1,1-Dichloropropene	ND		ug/kg	31	9.8	1
Bromoform	ND		ug/kg	250	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	31	10.	1
Benzene	ND		ug/kg	31	10.	1
Toluene	ND		ug/kg	62	34.	1
Ethylbenzene	ND		ug/kg	62	8.7	1
Chloromethane	ND		ug/kg	250	58.	1
Bromomethane	ND		ug/kg	120	36.	1
Vinyl chloride	ND		ug/kg	62	21.	1
Chloroethane	ND		ug/kg	120	28.	1
1,1-Dichloroethene	ND		ug/kg	62	15.	1
trans-1,2-Dichloroethene	ND		ug/kg	93	8.5	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1929474

Project Number: 170500202

Report Date: 07/09/19

SAMPLE RESULTS

Lab ID: L1929474-01
 Client ID: EP18_3.5_070819
 Sample Location: NY, NY 10027

Date Collected: 07/08/19 07:40
 Date Received: 07/08/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	31	8.5	1
1,2-Dichlorobenzene	ND		ug/kg	120	8.9	1
1,3-Dichlorobenzene	ND		ug/kg	120	9.1	1
1,4-Dichlorobenzene	ND		ug/kg	120	10.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	ND		ug/kg	120	34.	1
o-Xylene	ND		ug/kg	62	18.	1
Xylenes, Total	ND		ug/kg	62	18.	1
cis-1,2-Dichloroethene	ND		ug/kg	62	11.	1
1,2-Dichloroethene, Total	ND		ug/kg	62	8.5	1
Dibromomethane	ND		ug/kg	120	15.	1
Styrene	ND		ug/kg	62	12.	1
Dichlorodifluoromethane	ND		ug/kg	620	56.	1
Acetone	ND		ug/kg	620	300	1
Carbon disulfide	ND		ug/kg	620	280	1
2-Butanone	ND		ug/kg	620	140	1
Vinyl acetate	ND		ug/kg	620	130	1
4-Methyl-2-pentanone	ND		ug/kg	620	79.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.8	1
2-Hexanone	ND		ug/kg	620	73.	1
Bromochloromethane	ND		ug/kg	120	13.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	62	17.	1
1,3-Dichloropropane	ND		ug/kg	120	10.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	31	8.2	1
Bromobenzene	ND		ug/kg	120	9.0	1
n-Butylbenzene	ND		ug/kg	62	10.	1
sec-Butylbenzene	67		ug/kg	62	9.0	1
tert-Butylbenzene	ND		ug/kg	120	7.3	1
o-Chlorotoluene	ND		ug/kg	120	12.	1
p-Chlorotoluene	ND		ug/kg	120	6.7	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	62.	1
Hexachlorobutadiene	ND		ug/kg	250	10.	1
Isopropylbenzene	ND		ug/kg	62	6.7	1
p-Isopropyltoluene	ND		ug/kg	62	6.7	1
Naphthalene	96	J	ug/kg	250	40.	1
Acrylonitrile	ND		ug/kg	250	71.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

SAMPLE RESULTS

Lab ID: L1929474-01
 Client ID: EP18_3.5_070819
 Sample Location: NY, NY 10027

Date Collected: 07/08/19 07:40
 Date Received: 07/08/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	62	10.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	17.	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	12.	1
1,2,4-Trimethylbenzene	ND		ug/kg	120	21.	1
1,4-Dioxane	ND		ug/kg	4900	2200	1
p-Diethylbenzene	80	J	ug/kg	120	11.	1
p-Ethyltoluene	ND		ug/kg	120	24.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	120	12.	1
Ethyl ether	ND		ug/kg	120	21.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	310	88.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	163	Q	70-130
Dibromofluoromethane	98		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 07/09/19 07:03
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1257413-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/09/19 07:03
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1257413-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	10	J	ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 07/09/19 07:03
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1257413-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1929474

Project Number: 170500202

Report Date: 07/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1257413-3 WG1257413-4								
Methylene chloride	89		87		70-130	2		30
1,1-Dichloroethane	98		97		70-130	1		30
Chloroform	102		102		70-130	0		30
Carbon tetrachloride	113		110		70-130	3		30
1,2-Dichloropropane	93		93		70-130	0		30
Dibromochloromethane	101		100		70-130	1		30
1,1,2-Trichloroethane	97		97		70-130	0		30
Tetrachloroethene	112		107		70-130	5		30
Chlorobenzene	99		97		70-130	2		30
Trichlorofluoromethane	113		112		70-139	1		30
1,2-Dichloroethane	92		95		70-130	3		30
1,1,1-Trichloroethane	112		111		70-130	1		30
Bromodichloromethane	104		103		70-130	1		30
trans-1,3-Dichloropropene	101		100		70-130	1		30
cis-1,3-Dichloropropene	106		105		70-130	1		30
1,1-Dichloropropene	111		110		70-130	1		30
Bromoform	103		99		70-130	4		30
1,1,2,2-Tetrachloroethane	92		89		70-130	3		30
Benzene	102		100		70-130	2		30
Toluene	99		97		70-130	2		30
Ethylbenzene	102		100		70-130	2		30
Chloromethane	79		80		52-130	1		30
Bromomethane	113		110		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1929474

Project Number: 170500202

Report Date: 07/09/19

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1257413-3 WG1257413-4								
Vinyl chloride	102		100		67-130	2		30
Chloroethane	111		109		50-151	2		30
1,1-Dichloroethene	107		107		65-135	0		30
trans-1,2-Dichloroethene	106		104		70-130	2		30
Trichloroethene	108		106		70-130	2		30
1,2-Dichlorobenzene	99		97		70-130	2		30
1,3-Dichlorobenzene	102		100		70-130	2		30
1,4-Dichlorobenzene	100		98		70-130	2		30
Methyl tert butyl ether	95		96		66-130	1		30
p/m-Xylene	104		103		70-130	1		30
o-Xylene	104		102		70-130	2		30
cis-1,2-Dichloroethene	104		104		70-130	0		30
Dibromomethane	99		101		70-130	2		30
Styrene	104		103		70-130	1		30
Dichlorodifluoromethane	96		94		30-146	2		30
Acetone	73		67		54-140	9		30
Carbon disulfide	102		99		59-130	3		30
2-Butanone	78		79		70-130	1		30
Vinyl acetate	86		85		70-130	1		30
4-Methyl-2-pentanone	84		81		70-130	4		30
1,2,3-Trichloropropane	94		91		68-130	3		30
2-Hexanone	72		71		70-130	1		30
Bromochloromethane	108		105		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1929474

Project Number: 170500202

Report Date: 07/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1257413-3 WG1257413-4								
2,2-Dichloropropane	111		108		70-130	3		30
1,2-Dibromoethane	98		100		70-130	2		30
1,3-Dichloropropane	96		95		69-130	1		30
1,1,1,2-Tetrachloroethane	104		102		70-130	2		30
Bromobenzene	100		97		70-130	3		30
n-Butylbenzene	107		103		70-130	4		30
sec-Butylbenzene	106		103		70-130	3		30
tert-Butylbenzene	105		103		70-130	2		30
o-Chlorotoluene	83		81		70-130	2		30
p-Chlorotoluene	102		100		70-130	2		30
1,2-Dibromo-3-chloropropane	86		89		68-130	3		30
Hexachlorobutadiene	115		114		67-130	1		30
Isopropylbenzene	106		103		70-130	3		30
p-Isopropyltoluene	107		104		70-130	3		30
Naphthalene	96		94		70-130	2		30
Acrylonitrile	74		74		70-130	0		30
n-Propylbenzene	104		101		70-130	3		30
1,2,3-Trichlorobenzene	101		98		70-130	3		30
1,2,4-Trichlorobenzene	107		105		70-130	2		30
1,3,5-Trimethylbenzene	106		103		70-130	3		30
1,2,4-Trimethylbenzene	104		102		70-130	2		30
1,4-Dioxane	97		98		65-136	1		30
p-Diethylbenzene	108		106		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1929474

Project Number: 170500202

Report Date: 07/09/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1257413-3 WG1257413-4								
p-Ethyltoluene	104		101		70-130	3		30
1,2,4,5-Tetramethylbenzene	106		103		70-130	3		30
Ethyl ether	98		98		67-130	0		30
trans-1,4-Dichloro-2-butene	89		85		70-130	5		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	98		99		70-130
Toluene-d8	98		96		70-130
4-Bromofluorobenzene	99		95		70-130
Dibromofluoromethane	101		102		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

SAMPLE RESULTS

Lab ID: L1929474-01
 Client ID: EP18_3.5_070819
 Sample Location: NY, NY 10027

Date Collected: 07/08/19 07:40
 Date Received: 07/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/09/19 13:02
 Analyst: JG
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/08/19 22:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	31.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	46.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	60.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

SAMPLE RESULTS

Lab ID: L1929474-01
 Client ID: EP18_3.5_070819
 Sample Location: NY, NY 10027

Date Collected: 07/08/19 07:40
 Date Received: 07/08/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	72.	1
Dibenzofuran	ND		ug/kg	180	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

SAMPLE RESULTS

Lab ID: L1929474-01
 Client ID: EP18_3.5_070819
 Sample Location: NY, NY 10027

Date Collected: 07/08/19 07:40
 Date Received: 07/08/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	95		25-120
Phenol-d6	98		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	100		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	97		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/09/19 11:47
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 07/08/19 22:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1257293-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/09/19 11:47
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 07/08/19 22:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1257293-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 07/09/19 11:47
 Analyst: JG

Extraction Method: EPA 3546
 Extraction Date: 07/08/19 22:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1257293-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	92		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1929474

Project Number: 170500202

Report Date: 07/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1257293-2 WG1257293-3								
Acenaphthene	73		82		31-137	12		50
1,2,4-Trichlorobenzene	69		81		38-107	16		50
Hexachlorobenzene	72		81		40-140	12		50
Bis(2-chloroethyl)ether	68		78		40-140	14		50
2-Chloronaphthalene	74		86		40-140	15		50
1,2-Dichlorobenzene	63		72		40-140	13		50
1,3-Dichlorobenzene	61		69		40-140	12		50
1,4-Dichlorobenzene	63		72		28-104	13		50
3,3'-Dichlorobenzidine	64		68		40-140	6		50
2,4-Dinitrotoluene	84		96		40-132	13		50
2,6-Dinitrotoluene	89		103		40-140	15		50
Fluoranthene	78		88		40-140	12		50
4-Chlorophenyl phenyl ether	75		84		40-140	11		50
4-Bromophenyl phenyl ether	74		83		40-140	11		50
Bis(2-chloroisopropyl)ether	86		99		40-140	14		50
Bis(2-chloroethoxy)methane	79		90		40-117	13		50
Hexachlorobutadiene	65		75		40-140	14		50
Hexachlorocyclopentadiene	81		92		40-140	13		50
Hexachloroethane	66		75		40-140	13		50
Isophorone	81		94		40-140	15		50
Naphthalene	67		77		40-140	14		50
Nitrobenzene	75		89		40-140	17		50
NDPA/DPA	78		88		36-157	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1929474

Project Number: 170500202

Report Date: 07/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1257293-2 WG1257293-3								
n-Nitrosodi-n-propylamine	81		96		32-121	17		50
Bis(2-ethylhexyl)phthalate	96		101		40-140	5		50
Butyl benzyl phthalate	94		107		40-140	13		50
Di-n-butylphthalate	87		97		40-140	11		50
Di-n-octylphthalate	97		106		40-140	9		50
Diethyl phthalate	80		91		40-140	13		50
Dimethyl phthalate	82		95		40-140	15		50
Benzo(a)anthracene	78		86		40-140	10		50
Benzo(a)pyrene	74		84		40-140	13		50
Benzo(b)fluoranthene	75		84		40-140	11		50
Benzo(k)fluoranthene	75		86		40-140	14		50
Chrysene	77		85		40-140	10		50
Acenaphthylene	80		91		40-140	13		50
Anthracene	80		88		40-140	10		50
Benzo(ghi)perylene	74		82		40-140	10		50
Fluorene	76		85		40-140	11		50
Phenanthrene	75		82		40-140	9		50
Dibenzo(a,h)anthracene	81		90		40-140	11		50
Indeno(1,2,3-cd)pyrene	69		75		40-140	8		50
Pyrene	77		88		35-142	13		50
Biphenyl	80		91		54-104	13		50
4-Chloroaniline	71		78		40-140	9		50
2-Nitroaniline	77		93		47-134	19		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1929474

Project Number: 170500202

Report Date: 07/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1257293-2 WG1257293-3								
3-Nitroaniline	62		70		26-129	12		50
4-Nitroaniline	69		84		41-125	20		50
Dibenzofuran	74		84		40-140	13		50
2-Methylnaphthalene	70		82		40-140	16		50
1,2,4,5-Tetrachlorobenzene	72		82		40-117	13		50
Acetophenone	75		88		14-144	16		50
2,4,6-Trichlorophenol	79		91		30-130	14		50
p-Chloro-m-cresol	81		93		26-103	14		50
2-Chlorophenol	70		81		25-102	15		50
2,4-Dichlorophenol	80		94		30-130	16		50
2,4-Dimethylphenol	83		97		30-130	16		50
2-Nitrophenol	77		90		30-130	16		50
4-Nitrophenol	82		98		11-114	18		50
2,4-Dinitrophenol	75		89		4-130	17		50
4,6-Dinitro-o-cresol	90		106		10-130	16		50
Pentachlorophenol	88		104		17-109	17		50
Phenol	76		89		26-90	16		50
2-Methylphenol	76		89		30-130.	16		50
3-Methylphenol/4-Methylphenol	75		88		30-130	16		50
2,4,5-Trichlorophenol	79		94		30-130	17		50
Benzoic Acid	56		66		10-110	16		50
Benzyl Alcohol	78		90		40-140	14		50
Carbazole	76		86		54-128	12		50

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1257293-2 WG1257293-3								
1,4-Dioxane	52		55		40-140	6		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	69		77		25-120
Phenol-d6	74		84		10-120
Nitrobenzene-d5	81		94		23-120
2-Fluorobiphenyl	81		91		30-120
2,4,6-Tribromophenol	75		82		10-136
4-Terphenyl-d14	82		91		18-120

PCBS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

SAMPLE RESULTS

Lab ID: L1929474-01
 Client ID: EP18_3.5_070819
 Sample Location: NY, NY 10027

Date Collected: 07/08/19 07:40
 Date Received: 07/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 07/09/19 17:02
 Analyst: WR
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/09/19 12:36
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/09/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.2	3.04	1	A
Aroclor 1221	ND		ug/kg	34.2	3.43	1	A
Aroclor 1232	ND		ug/kg	34.2	7.26	1	A
Aroclor 1242	ND		ug/kg	34.2	4.61	1	A
Aroclor 1248	ND		ug/kg	34.2	5.14	1	A
Aroclor 1254	ND		ug/kg	34.2	3.74	1	A
Aroclor 1260	ND		ug/kg	34.2	6.33	1	A
Aroclor 1262	ND		ug/kg	34.2	4.35	1	A
Aroclor 1268	ND		ug/kg	34.2	3.55	1	A
PCBs, Total	ND		ug/kg	34.2	3.04	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	111		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/09/19 13:31
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 07/09/19 04:29
Cleanup Method: EPA 3665A
Cleanup Date: 07/09/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1257354-1						
Aroclor 1016	ND		ug/kg	32.9	2.92	A
Aroclor 1221	ND		ug/kg	32.9	3.30	A
Aroclor 1232	ND		ug/kg	32.9	6.97	A
Aroclor 1242	ND		ug/kg	32.9	4.43	A
Aroclor 1248	ND		ug/kg	32.9	4.93	A
Aroclor 1254	ND		ug/kg	32.9	3.60	A
Aroclor 1260	ND		ug/kg	32.9	6.08	A
Aroclor 1262	ND		ug/kg	32.9	4.18	A
Aroclor 1268	ND		ug/kg	32.9	3.41	A
PCBs, Total	ND		ug/kg	32.9	2.92	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	87		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1257354-2 WG1257354-3									
Aroclor 1016	70		69		40-140	1		50	A
Aroclor 1260	55		54		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		80		30-150	A
Decachlorobiphenyl	67		66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		74		30-150	B
Decachlorobiphenyl	80		79		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

SAMPLE RESULTS

Lab ID: L1929474-01
 Client ID: EP18_3.5_070819
 Sample Location: NY, NY 10027

Date Collected: 07/08/19 07:40
 Date Received: 07/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 07/09/19 15:20
 Analyst: BM
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/09/19 00:15
 Cleanup Method: EPA 3620B
 Cleanup Date: 07/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.62	0.317	1	A
Lindane	ND		ug/kg	0.674	0.301	1	A
Alpha-BHC	ND		ug/kg	0.674	0.192	1	A
Beta-BHC	ND		ug/kg	1.62	0.614	1	A
Heptachlor	ND		ug/kg	0.809	0.363	1	A
Aldrin	ND		ug/kg	1.62	0.570	1	A
Heptachlor epoxide	ND		ug/kg	3.03	0.910	1	A
Endrin	ND		ug/kg	0.674	0.276	1	A
Endrin aldehyde	ND		ug/kg	2.02	0.708	1	A
Endrin ketone	ND		ug/kg	1.62	0.417	1	A
Dieldrin	ND		ug/kg	1.01	0.506	1	A
4,4'-DDE	ND		ug/kg	1.62	0.374	1	A
4,4'-DDD	ND		ug/kg	1.62	0.577	1	A
4,4'-DDT	ND		ug/kg	3.03	1.30	1	A
Endosulfan I	ND		ug/kg	1.62	0.382	1	A
Endosulfan II	ND		ug/kg	1.62	0.541	1	A
Endosulfan sulfate	ND		ug/kg	0.674	0.321	1	A
Methoxychlor	ND		ug/kg	3.03	0.944	1	A
Toxaphene	ND		ug/kg	30.3	8.50	1	A
cis-Chlordane	ND		ug/kg	2.02	0.564	1	A
trans-Chlordane	ND		ug/kg	2.02	0.534	1	A
Chlordane	ND		ug/kg	13.1	5.36	1	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

SAMPLE RESULTS

Lab ID: L1929474-01
 Client ID: EP18_3.5_070819
 Sample Location: NY, NY 10027

Date Collected: 07/08/19 07:40
 Date Received: 07/08/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	127		30-150	A
Decachlorobiphenyl	104		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

SAMPLE RESULTS

Lab ID: L1929474-01
 Client ID: EP18_3.5_070819
 Sample Location: NY, NY 10027

Date Collected: 07/08/19 07:40
 Date Received: 07/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 07/09/19 13:35
 Analyst: DGM
 Percent Solids: 94%
 Methylation Date: 07/09/19 11:35

Extraction Method: EPA 8151A
 Extraction Date: 07/09/19 02:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	174	11.0	1	A
2,4,5-T	ND		ug/kg	174	5.39	1	A
2,4,5-TP (Silvex)	ND		ug/kg	174	4.63	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	100		30-150	A
DCAA	80		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/09/19 13:24
Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 07/09/19 00:15
Cleanup Method: EPA 3620B
Cleanup Date: 07/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1257307-1						
Delta-BHC	ND		ug/kg	1.52	0.298	A
Lindane	ND		ug/kg	0.633	0.283	A
Alpha-BHC	ND		ug/kg	0.633	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.576	A
Heptachlor	ND		ug/kg	0.760	0.341	A
Aldrin	ND		ug/kg	1.52	0.535	A
Heptachlor epoxide	ND		ug/kg	2.85	0.855	A
Endrin	ND		ug/kg	0.633	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.665	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.950	0.475	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.542	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.633	0.301	A
Methoxychlor	ND		ug/kg	2.85	0.887	A
Toxaphene	ND		ug/kg	28.5	7.98	A
cis-Chlordane	ND		ug/kg	1.90	0.529	A
trans-Chlordane	ND		ug/kg	1.90	0.502	A
Chlordane	ND		ug/kg	12.3	5.03	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/09/19 13:24
Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 07/09/19 00:15
Cleanup Method: EPA 3620B
Cleanup Date: 07/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1257307-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	81		30-150	B
2,4,5,6-Tetrachloro-m-xylene	106		30-150	A
Decachlorobiphenyl	105		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 07/09/19 13:54
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 07/08/19 19:28

Methylation Date: 07/09/19 11:35

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1257330-1						
2,4-D	ND		ug/kg	163	10.2	A
2,4,5-T	ND		ug/kg	163	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	94		30-150	A
DCAA	79		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1929474

Project Number: 170500202

Report Date: 07/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1257307-2 WG1257307-3									
Delta-BHC	99		103		30-150	4		30	A
Lindane	98		103		30-150	5		30	A
Alpha-BHC	110		115		30-150	4		30	A
Beta-BHC	85		88		30-150	3		30	A
Heptachlor	101		107		30-150	6		30	A
Aldrin	106		110		30-150	4		30	A
Heptachlor epoxide	86		89		30-150	3		30	A
Endrin	109		111		30-150	2		30	A
Endrin aldehyde	76		72		30-150	5		30	A
Endrin ketone	96		93		30-150	3		30	A
Dieldrin	113		117		30-150	3		30	A
4,4'-DDE	111		115		30-150	4		30	A
4,4'-DDD	110		112		30-150	2		30	A
4,4'-DDT	108		110		30-150	2		30	A
Endosulfan I	95		98		30-150	3		30	A
Endosulfan II	99		100		30-150	1		30	A
Endosulfan sulfate	79		74		30-150	7		30	A
Methoxychlor	88		88		30-150	0		30	A
cis-Chlordane	83		84		30-150	1		30	A
trans-Chlordane	96		99		30-150	3		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1929474

Report Date: 07/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1257307-2 WG1257307-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		88		30-150	B
Decachlorobiphenyl	81		80		30-150	B
2,4,5,6-Tetrachloro-m-xylene	109		110		30-150	A
Decachlorobiphenyl	94		97		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1257330-2 WG1257330-3									
2,4-D	109		107		30-150	2		30	A
2,4,5-T	108		102		30-150	6		30	A
2,4,5-TP (Silvex)	108		103		30-150	5		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	93		81		30-150	A
DCAA	86		79		30-150	B

METALS

Project Name: 300 WEST 122ND ST.

Lab Number: L1929474

Project Number: 170500202

Report Date: 07/09/19

SAMPLE RESULTS

Lab ID: L1929474-01
 Client ID: EP18_3.5_070819
 Sample Location: NY, NY 10027

Date Collected: 07/08/19 07:40
 Date Received: 07/08/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1700		mg/kg	8.02	2.16	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Antimony, Total	0.882	J	mg/kg	4.01	0.304	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Arsenic, Total	0.272	J	mg/kg	0.802	0.167	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Barium, Total	14.2		mg/kg	0.802	0.139	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Beryllium, Total	0.120	J	mg/kg	0.401	0.026	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.802	0.079	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Calcium, Total	450		mg/kg	8.02	2.80	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Chromium, Total	4.76		mg/kg	0.802	0.077	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Cobalt, Total	2.38		mg/kg	1.60	0.133	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Copper, Total	6.56		mg/kg	0.802	0.207	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Iron, Total	4330		mg/kg	4.01	0.724	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Lead, Total	2.24	J	mg/kg	4.01	0.215	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Magnesium, Total	832		mg/kg	8.02	1.23	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Manganese, Total	102		mg/kg	0.802	0.127	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.067	0.044	1	07/09/19 07:45	07/09/19 12:51	EPA 7471B	1,7471B	GD
Nickel, Total	6.90		mg/kg	2.00	0.194	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Potassium, Total	300		mg/kg	200	11.5	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.60	0.207	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.802	0.227	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Sodium, Total	46.1	J	mg/kg	160	2.52	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.60	0.252	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Vanadium, Total	5.20		mg/kg	0.802	0.163	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
Zinc, Total	7.90		mg/kg	4.01	0.235	2	07/09/19 10:30	07/09/19 12:44	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.8		mg/kg	0.85	0.85	1		07/09/19 12:44	NA	107,-	



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

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): 01 Batch: WG1257399-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	07/09/19 07:45	07/09/19 12:39	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1257421-1									
Aluminum, Total	ND	mg/kg	4.00	1.08	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Antimony, Total	ND	mg/kg	2.00	0.152	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Arsenic, Total	ND	mg/kg	0.400	0.083	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Barium, Total	ND	mg/kg	0.400	0.070	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Beryllium, Total	ND	mg/kg	0.200	0.013	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Cadmium, Total	ND	mg/kg	0.400	0.039	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Calcium, Total	ND	mg/kg	4.00	1.40	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Chromium, Total	ND	mg/kg	0.400	0.038	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Cobalt, Total	ND	mg/kg	0.800	0.066	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Copper, Total	0.116 J	mg/kg	0.400	0.103	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Iron, Total	ND	mg/kg	2.00	0.361	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Magnesium, Total	ND	mg/kg	4.00	0.616	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Manganese, Total	ND	mg/kg	0.400	0.064	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Nickel, Total	ND	mg/kg	1.00	0.097	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Potassium, Total	ND	mg/kg	100	5.76	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Selenium, Total	ND	mg/kg	0.800	0.103	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Silver, Total	ND	mg/kg	0.400	0.113	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Sodium, Total	2.40 J	mg/kg	80.0	1.26	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Thallium, Total	ND	mg/kg	0.800	0.126	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Vanadium, Total	ND	mg/kg	0.400	0.081	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC
Zinc, Total	0.128 J	mg/kg	2.00	0.117	1	07/09/19 10:30	07/09/19 12:13	1,6010D	LC

Project Name: 300 WEST 122ND ST.

Lab Number: L1929474

Project Number: 170500202

Report Date: 07/09/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1257399-2 SRM Lot Number: D105-540								
Mercury, Total	100		-		60-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1929474

Report Date: 07/09/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1257421-2 SRM Lot Number: D105-540					
Aluminum, Total	65	-	51-149	-	
Antimony, Total	154	-	19-249	-	
Arsenic, Total	96	-	70-130	-	
Barium, Total	89	-	75-125	-	
Beryllium, Total	90	-	75-125	-	
Cadmium, Total	87	-	75-125	-	
Calcium, Total	82	-	73-127	-	
Chromium, Total	87	-	70-130	-	
Cobalt, Total	88	-	75-125	-	
Copper, Total	90	-	75-125	-	
Iron, Total	80	-	38-162	-	
Lead, Total	87	-	71-128	-	
Magnesium, Total	80	-	63-137	-	
Manganese, Total	86	-	76-124	-	
Nickel, Total	90	-	70-131	-	
Potassium, Total	84	-	60-140	-	
Selenium, Total	96	-	63-137	-	
Silver, Total	92	-	69-131	-	
Sodium, Total	98	-	37-162	-	
Thallium, Total	88	-	68-132	-	
Vanadium, Total	88	-	65-135	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1929474

Project Number: 170500202

Report Date: 07/09/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1257421-2 SRM Lot Number: D105-540					
Zinc, Total	88	-	70-130	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1257399-3 WG1257399-4 QC Sample: L1929556-07 Client ID: MS Sample												
Mercury, Total	ND	0.158	0.165	104		0.151	95		80-120	9		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1929474

Project Number: 170500202

Report Date: 07/09/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits		
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1257421-3 WG1257421-4 QC Sample: L1929556-07 Client ID: MS Sample											
Aluminum, Total	2810	198	3270	232	Q	3690	448	Q	75-125	12	20
Antimony, Total	ND	49.5	45.8	92		46.5	95		75-125	2	20
Arsenic, Total	ND	11.9	12.4	104		12.4	105		75-125	0	20
Barium, Total	17.2	198	203	94		209	98		75-125	3	20
Beryllium, Total	0.110J	4.95	4.67	94		4.74	96		75-125	1	20
Cadmium, Total	ND	5.05	4.49	89		4.51	90		75-125	0	20
Calcium, Total	352	991	1390	105		1460	113		75-125	5	20
Chromium, Total	10.2	19.8	28.8	94		30.7	104		75-125	6	20
Cobalt, Total	5.94	49.5	50.7	90		51.2	92		75-125	1	20
Copper, Total	4.68	24.8	26.6	88		27.6	93		75-125	4	20
Iron, Total	6170	99.1	6260	91		7550	1400	Q	75-125	19	20
Lead, Total	1.50J	50.5	49.0	97		49.7	99		75-125	1	20
Magnesium, Total	578	991	1510	94		1520	96		75-125	1	20
Manganese, Total	280	49.5	261	0	Q	312	65	Q	75-125	18	20
Nickel, Total	3.82	49.5	48.8	91		49.9	94		75-125	2	20
Potassium, Total	461	991	1450	100		1480	104		75-125	2	20
Selenium, Total	ND	11.9	11.3	95		11.9	101		75-125	5	20
Silver, Total	ND	29.7	28.4	96		28.9	98		75-125	2	20
Sodium, Total	27.3J	991	938	95		957	97		75-125	2	20
Thallium, Total	ND	11.9	10.5	88		10.7	91		75-125	2	20
Vanadium, Total	13.0	49.5	60.0	95		63.2	102		75-125	5	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1929474

Project Number: 170500202

Report Date: 07/09/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1257421-3 WG1257421-4 QC Sample: L1929556-07 Client ID: MS Sample									
Zinc, Total	10.0	49.5	56.9	95	58.2	98	75-125	2	20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

SAMPLE RESULTS

Lab ID: L1929474-01
Client ID: EP18_3.5_070819
Sample Location: NY, NY 10027

Date Collected: 07/08/19 07:40
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.8		%	0.100	NA	1	-	07/08/19 22:28	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.21	1	07/09/19 00:20	07/09/19 07:33	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.853	0.170	1	07/09/19 02:23	07/09/19 10:58	1,7196A	NH



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

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): 01 Batch: WG1257312-1									
Cyanide, Total	ND	mg/kg	0.94	0.20	1	07/09/19 00:20	07/09/19 07:29	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1257326-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	07/09/19 02:23	07/09/19 10:58	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1929474

Report Date: 07/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1257312-2 WG1257312-3								
Cyanide, Total	65	Q	28	Q	80-120	77	Q	35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1257326-2								
Chromium, Hexavalent	87		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1929474

Project Number: 170500202

Report Date: 07/09/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1257312-4 WG1257312-5 QC Sample: L1929474-01 Client ID: EP18_3.5_070819												
Cyanide, Total	ND	10	9.6	95		10	94		75-125	4		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1257326-4 QC Sample: L1929474-01 Client ID: EP18_3.5_070819												
Chromium, Hexavalent	ND	797	695	87		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1929474

Report Date: 07/09/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1257288-1 QC Sample: L1929510-22 Client ID: DUP Sample						
Solids, Total	88.1	87.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1257326-6 QC Sample: L1929474-01 Client ID: EP18_3.5_070819						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Serial_No:07091920:17
Lab Number: L1929474
Report Date: 07/09/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1929474-01A	Vial MeOH preserved	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L1929474-01B	Vial water preserved	A	NA		2.8	Y	Absent	08-JUL-19 21:51	NYTCL-8260HLW(14)
L1929474-01C	Vial water preserved	A	NA		2.8	Y	Absent	08-JUL-19 21:51	NYTCL-8260HLW(14)
L1929474-01D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1929474-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	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)
L1929474-01F	Glass 120ml/4oz unpreserved	A	NA		2.8	Y	Absent		HEXCR-7196(30)
L1929474-01G	Glass 500ml/16oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

- 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

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929474
Report Date: 07/09/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

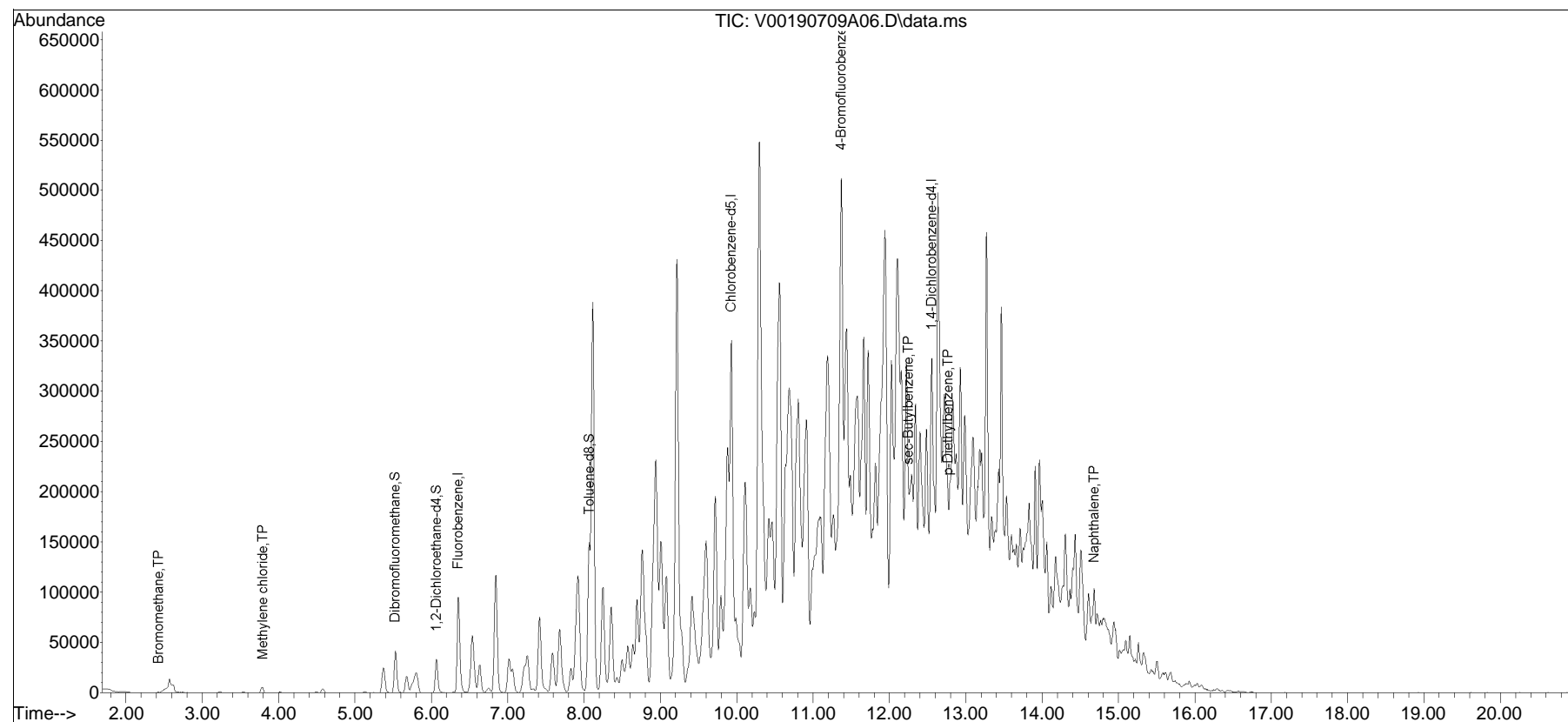
 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 7/8/19		ALPHA Job # L1929474			
		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: 300 West 122nd St. Project Location: NY, NY 10027 Project # 170500202 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #			
Client Information Client: LANGRAN, DPC Address: 360 W 31st St, Floor 8 NY, NY 10001 Phone: 212-479-5400 Fax: Email: G.WYKHA@LANGRAN.COM		Project Manager: Greg Wyka ALPHAQuote #: Turn-Around Time Standard <input type="checkbox"/> Due Date: 7/9/19 Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days: 24 hr.		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:					
These samples have been previously analyzed by Alpha <input type="checkbox"/>		Other project specific requirements/comments: Please specify Metals or TAL.		ANALYSIS Part 375/TCL VOCs SVOCs PCBs PEST/Herb 7ML Inc Tests + Hex/Tris Chlorine + Inorganic		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> 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
29474-01		EP18-3.5-070819		7/8/19 0740		SOIL		AS		(3) VOA, (1) plastic, (1) 2oz, (1) 4oz, (1) 16oz	
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:		Date/Time		Received By:		Date/Time					
[Signature]		7/8/19 1130		[Signature]		7/8/19 1130					
[Signature]		7/8/19 1220		[Signature]		7/8/19 1645					
P.S.		7/8/19 20:30		[Signature]		7/8/19 2030					

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA100\2019\190709A\
Data File : V00190709A06.D
Acq On : 9 Jul 2019 7:29 am
Operator : VOA100:MV
Sample : 11929474-01,31H,4.56,5,0.100,,a
Misc : WG1257413,ICAL15879
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 09 10:10:49 2019
Quant Method : I:\VOLATILES\VOA100\2019\190709A\V100_190614N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jun 17 12:25:42 2019
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox90709A\V00190709A01.D•





ANALYTICAL REPORT

Lab Number:	L1917794
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	05/07/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1917794-01	EP19_12.5_043019	SOIL	NY, NY	04/30/19 14:45	04/30/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

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.

Total Metals

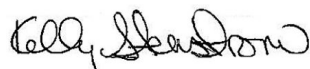
L1917794-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

The WG1232346-2/-3 LCS/LCSD recoveries (73%/39%), associated with L1917794-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. The LCS/LCSD RPD (53%) is above the acceptance criteria.

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: 05/07/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

SAMPLE RESULTS

Lab ID: L1917794-01
 Client ID: EP19_12.5_043019
 Sample Location: NY, NY

Date Collected: 04/30/19 14:45
 Date Received: 04/30/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 05/04/19 09:48
 Analyst: AD
 Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

SAMPLE RESULTS

Lab ID: L1917794-01
Client ID: EP19_12.5_043019
Sample Location: NY, NY

Date Collected: 04/30/19 14:45
Date Received: 04/30/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

SAMPLE RESULTS

Lab ID: L1917794-01
Client ID: EP19_12.5_043019
Sample Location: NY, NY

Date Collected: 04/30/19 14:45
Date Received: 04/30/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.34	1
1,4-Dioxane	ND		ug/kg	83	36.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	98		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/04/19 08:30
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1233822-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 05/04/19 08:30
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1233822-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 05/04/19 08:30
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1233822-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917794

Project Number: 170500202

Report Date: 05/07/19

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: WG1233822-3 WG1233822-4								
Methylene chloride	110		107		70-130	3		30
1,1-Dichloroethane	119		117		70-130	2		30
Chloroform	107		104		70-130	3		30
Carbon tetrachloride	105		102		70-130	3		30
1,2-Dichloropropane	117		114		70-130	3		30
Dibromochloromethane	97		95		70-130	2		30
1,1,2-Trichloroethane	101		100		70-130	1		30
Tetrachloroethene	102		97		70-130	5		30
Chlorobenzene	97		95		70-130	2		30
Trichlorofluoromethane	88		85		70-139	3		30
1,2-Dichloroethane	110		109		70-130	1		30
1,1,1-Trichloroethane	108		104		70-130	4		30
Bromodichloromethane	107		103		70-130	4		30
trans-1,3-Dichloropropene	103		102		70-130	1		30
cis-1,3-Dichloropropene	112		110		70-130	2		30
1,1-Dichloropropene	114		111		70-130	3		30
Bromoform	90		90		70-130	0		30
1,1,1,2-Tetrachloroethane	94		94		70-130	0		30
Benzene	111		108		70-130	3		30
Toluene	100		98		70-130	2		30
Ethylbenzene	99		96		70-130	3		30
Chloromethane	131	Q	121		52-130	8		30
Bromomethane	73		74		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917794

Project Number: 170500202

Report Date: 05/07/19

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: WG1233822-3 WG1233822-4								
Vinyl chloride	111		105		67-130	6		30
Chloroethane	96		90		50-151	6		30
1,1-Dichloroethene	116		112		65-135	4		30
trans-1,2-Dichloroethene	111		108		70-130	3		30
Trichloroethene	109		107		70-130	2		30
1,2-Dichlorobenzene	94		92		70-130	2		30
1,3-Dichlorobenzene	94		91		70-130	3		30
1,4-Dichlorobenzene	94		91		70-130	3		30
Methyl tert butyl ether	107		106		66-130	1		30
p/m-Xylene	100		97		70-130	3		30
o-Xylene	96		93		70-130	3		30
cis-1,2-Dichloroethene	107		106		70-130	1		30
Dibromomethane	104		104		70-130	0		30
Styrene	95		93		70-130	2		30
Dichlorodifluoromethane	94		89		30-146	5		30
Acetone	127		132		54-140	4		30
Carbon disulfide	112		108		59-130	4		30
2-Butanone	111		118		70-130	6		30
Vinyl acetate	119		121		70-130	2		30
4-Methyl-2-pentanone	105		106		70-130	1		30
1,2,3-Trichloropropane	96		95		68-130	1		30
2-Hexanone	96		97		70-130	1		30
Bromochloromethane	109		109		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917794

Project Number: 170500202

Report Date: 05/07/19

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: WG1233822-3 WG1233822-4								
2,2-Dichloropropane	112		108		70-130	4		30
1,2-Dibromoethane	98		98		70-130	0		30
1,3-Dichloropropane	102		101		69-130	1		30
1,1,1,2-Tetrachloroethane	98		96		70-130	2		30
Bromobenzene	92		89		70-130	3		30
n-Butylbenzene	98		94		70-130	4		30
sec-Butylbenzene	97		93		70-130	4		30
tert-Butylbenzene	94		92		70-130	2		30
o-Chlorotoluene	95		93		70-130	2		30
p-Chlorotoluene	97		94		70-130	3		30
1,2-Dibromo-3-chloropropane	90		90		68-130	0		30
Hexachlorobutadiene	95		92		67-130	3		30
Isopropylbenzene	95		92		70-130	3		30
p-Isopropyltoluene	96		92		70-130	4		30
Naphthalene	84		84		70-130	0		30
Acrylonitrile	120		123		70-130	2		30
n-Propylbenzene	97		93		70-130	4		30
1,2,3-Trichlorobenzene	91		88		70-130	3		30
1,2,4-Trichlorobenzene	91		87		70-130	4		30
1,3,5-Trimethylbenzene	97		93		70-130	4		30
1,2,4-Trimethylbenzene	96		92		70-130	4		30
1,4-Dioxane	107		110		65-136	3		30
p-Diethylbenzene	95		92		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917794

Report Date: 05/07/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1233822-3 WG1233822-4								
p-Ethyltoluene	97		93		70-130	4		30
1,2,4,5-Tetramethylbenzene	91		86		70-130	6		30
Ethyl ether	116		116		67-130	0		30
trans-1,4-Dichloro-2-butene	104		100		70-130	4		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	104		104		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	101		99		70-130
Dibromofluoromethane	100		100		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

SAMPLE RESULTS

Lab ID: L1917794-01
 Client ID: EP19_12.5_043019
 Sample Location: NY, NY

Date Collected: 04/30/19 14:45
 Date Received: 04/30/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 05/07/19 12:58
 Analyst: CB
 Percent Solids: 97%

Extraction Method: EPA 3546
 Extraction Date: 05/05/19 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	130	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	29.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	32	J	ug/kg	100	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	130	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	20.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	130	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.	1
Butyl benzyl phthalate	ND		ug/kg	170	42.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	57.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

SAMPLE RESULTS

Lab ID: L1917794-01
 Client ID: EP19_12.5_043019
 Sample Location: NY, NY

Date Collected: 04/30/19 14:45
 Date Received: 04/30/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	35.	1
Benzo(a)anthracene	25	J	ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	130	41.	1
Benzo(b)fluoranthene	28	J	ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	21	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	130	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.	1
Pyrene	33	J	ug/kg	100	17.	1
Biphenyl	ND		ug/kg	380	39.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	32.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	360	63.	1
4-Nitrophenol	ND		ug/kg	240	69.	1
2,4-Dinitrophenol	ND		ug/kg	810	78.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	81.	1
Pentachlorophenol	ND		ug/kg	130	37.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

SAMPLE RESULTS

Lab ID: L1917794-01
 Client ID: EP19_12.5_043019
 Sample Location: NY, NY

Date Collected: 04/30/19 14:45
 Date Received: 04/30/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1
Benzoic Acid	ND		ug/kg	540	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	16.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		25-120
Phenol-d6	48		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	50		30-120
2,4,6-Tribromophenol	37		10-136
4-Terphenyl-d14	40		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/06/19 19:59
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/04/19 12:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1233656-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/06/19 19:59
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/04/19 12:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1233656-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 05/06/19 19:59
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/04/19 12:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1233656-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	78		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917794

Project Number: 170500202

Report Date: 05/07/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1233656-2 WG1233656-3								
Acenaphthene	66		69		31-137	4		50
1,2,4-Trichlorobenzene	72		73		38-107	1		50
Hexachlorobenzene	66		68		40-140	3		50
Bis(2-chloroethyl)ether	70		69		40-140	1		50
2-Chloronaphthalene	74		74		40-140	0		50
1,2-Dichlorobenzene	72		70		40-140	3		50
1,3-Dichlorobenzene	69		68		40-140	1		50
1,4-Dichlorobenzene	69		69		28-104	0		50
3,3'-Dichlorobenzidine	47		50		40-140	6		50
2,4-Dinitrotoluene	73		75		40-132	3		50
2,6-Dinitrotoluene	79		80		40-140	1		50
Fluoranthene	77		79		40-140	3		50
4-Chlorophenyl phenyl ether	66		68		40-140	3		50
4-Bromophenyl phenyl ether	68		70		40-140	3		50
Bis(2-chloroisopropyl)ether	75		74		40-140	1		50
Bis(2-chloroethoxy)methane	76		74		40-117	3		50
Hexachlorobutadiene	66		68		40-140	3		50
Hexachlorocyclopentadiene	64		66		40-140	3		50
Hexachloroethane	70		69		40-140	1		50
Isophorone	78		77		40-140	1		50
Naphthalene	71		73		40-140	3		50
Nitrobenzene	76		76		40-140	0		50
NDPA/DPA	69		70		36-157	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917794

Project Number: 170500202

Report Date: 05/07/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1233656-2 WG1233656-3								
n-Nitrosodi-n-propylamine	77		78		32-121	1		50
Bis(2-ethylhexyl)phthalate	73		76		40-140	4		50
Butyl benzyl phthalate	77		79		40-140	3		50
Di-n-butylphthalate	76		78		40-140	3		50
Di-n-octylphthalate	77		78		40-140	1		50
Diethyl phthalate	69		70		40-140	1		50
Dimethyl phthalate	76		76		40-140	0		50
Benzo(a)anthracene	76		77		40-140	1		50
Benzo(a)pyrene	72		74		40-140	3		50
Benzo(b)fluoranthene	76		77		40-140	1		50
Benzo(k)fluoranthene	74		78		40-140	5		50
Chrysene	74		76		40-140	3		50
Acenaphthylene	76		77		40-140	1		50
Anthracene	76		79		40-140	4		50
Benzo(ghi)perylene	74		76		40-140	3		50
Fluorene	67		69		40-140	3		50
Phenanthrene	74		76		40-140	3		50
Dibenzo(a,h)anthracene	73		75		40-140	3		50
Indeno(1,2,3-cd)pyrene	74		76		40-140	3		50
Pyrene	76		78		35-142	3		50
Biphenyl	77		78		54-104	1		50
4-Chloroaniline	46		50		40-140	8		50
2-Nitroaniline	82		83		47-134	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917794

Project Number: 170500202

Report Date: 05/07/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1233656-2 WG1233656-3								
3-Nitroaniline	49		53		26-129	8		50
4-Nitroaniline	67		70		41-125	4		50
Dibenzofuran	67		70		40-140	4		50
2-Methylnaphthalene	72		74		40-140	3		50
1,2,4,5-Tetrachlorobenzene	76		78		40-117	3		50
Acetophenone	77		76		14-144	1		50
2,4,6-Trichlorophenol	80		81		30-130	1		50
p-Chloro-m-cresol	77		79		26-103	3		50
2-Chlorophenol	76		76		25-102	0		50
2,4-Dichlorophenol	79		79		30-130	0		50
2,4-Dimethylphenol	76		74		30-130	3		50
2-Nitrophenol	80		80		30-130	0		50
4-Nitrophenol	78		80		11-114	3		50
2,4-Dinitrophenol	62		60		4-130	3		50
4,6-Dinitro-o-cresol	76		80		10-130	5		50
Pentachlorophenol	63		63		17-109	0		50
Phenol	71		69		26-90	3		50
2-Methylphenol	76		76		30-130.	0		50
3-Methylphenol/4-Methylphenol	77		76		30-130	1		50
2,4,5-Trichlorophenol	79		80		30-130	1		50
Benzoic Acid	80		59		10-110	30		50
Benzyl Alcohol	76		76		40-140	0		50
Carbazole	77		79		54-128	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917794

Project Number: 170500202

Report Date: 05/07/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1233656-2 WG1233656-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
2-Fluorophenol	67		65		25-120
Phenol-d6	68		68		10-120
Nitrobenzene-d5	71		71		23-120
2-Fluorobiphenyl	67		67		30-120
2,4,6-Tribromophenol	62		63		10-136
4-Terphenyl-d14	68		71		18-120

PCBS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

SAMPLE RESULTS

Lab ID: L1917794-01
Client ID: EP19_12.5_043019
Sample Location: NY, NY

Date Collected: 04/30/19 14:45
Date Received: 04/30/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/06/19 21:32
Analyst: WR
Percent Solids: 97%

Extraction Method: EPA 3546
Extraction Date: 05/05/19 09:54
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/19
Cleanup Method: EPA 3660B
Cleanup Date: 05/06/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	32.5	2.89	1	A
Aroclor 1221	ND		ug/kg	32.5	3.26	1	A
Aroclor 1232	ND		ug/kg	32.5	6.90	1	A
Aroclor 1242	ND		ug/kg	32.5	4.39	1	A
Aroclor 1248	ND		ug/kg	32.5	4.88	1	A
Aroclor 1254	ND		ug/kg	32.5	3.56	1	A
Aroclor 1260	ND		ug/kg	32.5	6.01	1	A
Aroclor 1262	ND		ug/kg	32.5	4.13	1	A
Aroclor 1268	ND		ug/kg	32.5	3.37	1	A
PCBs, Total	ND		ug/kg	32.5	2.89	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 05/06/19 03:50
Analyst: KB

Extraction Method: EPA 3546
Extraction Date: 05/04/19 13:47
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/19
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1233680-1						
Aroclor 1016	ND		ug/kg	33.1	2.94	A
Aroclor 1221	ND		ug/kg	33.1	3.31	A
Aroclor 1232	ND		ug/kg	33.1	7.01	A
Aroclor 1242	ND		ug/kg	33.1	4.46	A
Aroclor 1248	ND		ug/kg	33.1	4.96	A
Aroclor 1254	ND		ug/kg	33.1	3.62	A
Aroclor 1260	ND		ug/kg	33.1	6.11	A
Aroclor 1262	ND		ug/kg	33.1	4.20	A
Aroclor 1268	ND		ug/kg	33.1	3.42	A
PCBs, Total	ND		ug/kg	33.1	2.94	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	83		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917794

Report Date: 05/07/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1233680-2 WG1233680-3									
Aroclor 1016	76		75		40-140	1		50	A
Aroclor 1260	71		67		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		84		30-150	A
Decachlorobiphenyl	77		74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		84		30-150	B
Decachlorobiphenyl	86		81		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

SAMPLE RESULTS

Lab ID: L1917794-01
 Client ID: EP19_12.5_043019
 Sample Location: NY, NY

Date Collected: 04/30/19 14:45
 Date Received: 04/30/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 05/06/19 12:02
 Analyst: KEG
 Percent Solids: 97%

Extraction Method: EPA 3546
 Extraction Date: 05/05/19 10:26
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/06/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.57	0.307	1	A
Lindane	ND		ug/kg	0.654	0.292	1	A
Alpha-BHC	ND		ug/kg	0.654	0.186	1	A
Beta-BHC	ND		ug/kg	1.57	0.595	1	A
Heptachlor	ND		ug/kg	0.785	0.352	1	A
Aldrin	ND		ug/kg	1.57	0.553	1	A
Heptachlor epoxide	ND		ug/kg	2.94	0.883	1	A
Endrin	ND		ug/kg	0.654	0.268	1	A
Endrin aldehyde	ND		ug/kg	1.96	0.687	1	A
Endrin ketone	ND		ug/kg	1.57	0.404	1	A
Dieldrin	ND		ug/kg	0.981	0.491	1	A
4,4'-DDE	0.542	J	ug/kg	1.57	0.363	1	A
4,4'-DDD	ND		ug/kg	1.57	0.560	1	A
4,4'-DDT	ND		ug/kg	2.94	1.26	1	A
Endosulfan I	ND		ug/kg	1.57	0.371	1	A
Endosulfan II	ND		ug/kg	1.57	0.525	1	A
Endosulfan sulfate	ND		ug/kg	0.654	0.311	1	A
Methoxychlor	ND		ug/kg	2.94	0.916	1	A
Toxaphene	ND		ug/kg	29.4	8.24	1	A
cis-Chlordane	ND		ug/kg	1.96	0.547	1	A
trans-Chlordane	ND		ug/kg	1.96	0.518	1	A
Chlordane	ND		ug/kg	12.8	5.20	1	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

SAMPLE RESULTS

Lab ID: L1917794-01
 Client ID: EP19_12.5_043019
 Sample Location: NY, NY

Date Collected: 04/30/19 14:45
 Date Received: 04/30/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	93		30-150	B
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	74		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

SAMPLE RESULTS

Lab ID: L1917794-01
 Client ID: EP19_12.5_043019
 Sample Location: NY, NY

Date Collected: 04/30/19 14:45
 Date Received: 04/30/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 05/04/19 13:21
 Analyst: DGM
 Percent Solids: 97%
 Methylation Date: 05/03/19 18:55

Extraction Method: EPA 8151A
 Extraction Date: 05/03/19 01:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	171	10.8	1	A
2,4,5-T	ND		ug/kg	171	5.30	1	A
2,4,5-TP (Silvex)	ND		ug/kg	171	4.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	87		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 05/04/19 10:39
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 05/03/19 01:13

Methylation Date: 05/03/19 18:55

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1233108-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.07	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.35	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	77		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/06/19 10:59
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 05/05/19 10:26
Cleanup Method: EPA 3620B
Cleanup Date: 05/06/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1233762-1						
Delta-BHC	ND		ug/kg	1.58	0.310	A
Lindane	ND		ug/kg	0.659	0.295	A
Alpha-BHC	ND		ug/kg	0.659	0.187	A
Beta-BHC	ND		ug/kg	1.58	0.600	A
Heptachlor	ND		ug/kg	0.791	0.355	A
Aldrin	ND		ug/kg	1.58	0.557	A
Heptachlor epoxide	ND		ug/kg	2.97	0.890	A
Endrin	ND		ug/kg	0.659	0.270	A
Endrin aldehyde	ND		ug/kg	1.98	0.692	A
Endrin ketone	ND		ug/kg	1.58	0.407	A
Dieldrin	ND		ug/kg	0.989	0.494	A
4,4'-DDE	ND		ug/kg	1.58	0.366	A
4,4'-DDD	ND		ug/kg	1.58	0.564	A
4,4'-DDT	ND		ug/kg	2.97	1.27	A
Endosulfan I	ND		ug/kg	1.58	0.374	A
Endosulfan II	ND		ug/kg	1.58	0.529	A
Endosulfan sulfate	ND		ug/kg	0.659	0.314	A
Methoxychlor	ND		ug/kg	2.97	0.923	A
Toxaphene	ND		ug/kg	29.7	8.30	A
cis-Chlordane	ND		ug/kg	1.98	0.551	A
trans-Chlordane	ND		ug/kg	1.98	0.522	A
Chlordane	ND		ug/kg	12.8	5.24	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 05/06/19 10:59
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 05/05/19 10:26
Cleanup Method: EPA 3620B
Cleanup Date: 05/06/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1233762-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	84		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1233108-2 WG1233108-3									
2,4-D	89		86		30-150	3		30	A
2,4,5-T	81		77		30-150	5		30	A
2,4,5-TP (Silvex)	85		82		30-150	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	84		82		30-150	A
DCAA	86		83		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917794

Project Number: 170500202

Report Date: 05/07/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1233762-2 WG1233762-3									
Delta-BHC	70		65		30-150	7		30	A
Lindane	69		67		30-150	3		30	A
Alpha-BHC	67		67		30-150	0		30	A
Beta-BHC	68		65		30-150	5		30	A
Heptachlor	46		44		30-150	4		30	A
Aldrin	59		55		30-150	7		30	A
Heptachlor epoxide	52		48		30-150	8		30	A
Endrin	74		68		30-150	8		30	A
Endrin aldehyde	54		49		30-150	10		30	A
Endrin ketone	66		60		30-150	10		30	A
Dieldrin	72		66		30-150	9		30	A
4,4'-DDE	68		62		30-150	9		30	A
4,4'-DDD	74		67		30-150	10		30	A
4,4'-DDT	77		71		30-150	8		30	A
Endosulfan I	63		58		30-150	8		30	A
Endosulfan II	68		62		30-150	9		30	A
Endosulfan sulfate	62		59		30-150	5		30	A
Methoxychlor	66		61		30-150	8		30	A
cis-Chlordane	59		58		30-150	2		30	A
trans-Chlordane	73		67		30-150	9		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1233762-2 WG1233762-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	77		72		30-150	B
Decachlorobiphenyl	101		94		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		62		30-150	A
Decachlorobiphenyl	76		73		30-150	A

METALS

Project Name: 300 WEST 122ND ST.

Lab Number: L1917794

Project Number: 170500202

Report Date: 05/07/19

SAMPLE RESULTS

Lab ID: L1917794-01
 Client ID: EP19_12.5_043019
 Sample Location: NY, NY

Date Collected: 04/30/19 14:45
 Date Received: 04/30/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3440		mg/kg	8.01	2.16	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Antimony, Total	0.377	J	mg/kg	4.01	0.304	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Arsenic, Total	1.27		mg/kg	0.801	0.167	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Barium, Total	37.9		mg/kg	0.801	0.139	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Beryllium, Total	0.160	J	mg/kg	0.401	0.026	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.801	0.079	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Calcium, Total	8120		mg/kg	8.01	2.80	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Chromium, Total	8.70		mg/kg	0.801	0.077	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Cobalt, Total	3.30		mg/kg	1.60	0.133	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Copper, Total	14.7		mg/kg	0.801	0.207	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Iron, Total	6550		mg/kg	4.01	0.724	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Lead, Total	75.3		mg/kg	4.01	0.215	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Magnesium, Total	1550		mg/kg	8.01	1.23	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Manganese, Total	154		mg/kg	0.801	0.127	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Mercury, Total	0.044	J	mg/kg	0.065	0.014	1	05/01/19 09:00	05/03/19 01:41	EPA 7471B	1,7471B	MG
Nickel, Total	7.24		mg/kg	2.00	0.194	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Potassium, Total	842		mg/kg	200	11.5	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.60	0.207	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.801	0.227	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Sodium, Total	153	J	mg/kg	160	2.52	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.60	0.252	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Vanadium, Total	10.6		mg/kg	0.801	0.163	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
Zinc, Total	35.8		mg/kg	4.01	0.235	2	05/01/19 17:14	05/02/19 23:45	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.7		mg/kg	0.83	0.83	1		05/02/19 23:45	NA	107,-	



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

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): 01 Batch: WG1232221-1									
Mercury, Total	ND	mg/kg	0.083	0.018	1	05/01/19 09:00	05/03/19 00:56	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1232482-1									
Aluminum, Total	ND	mg/kg	4.00	1.08	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Antimony, Total	ND	mg/kg	2.00	0.152	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Arsenic, Total	ND	mg/kg	0.400	0.083	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Barium, Total	ND	mg/kg	0.400	0.070	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Beryllium, Total	ND	mg/kg	0.200	0.013	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Cadmium, Total	ND	mg/kg	0.400	0.039	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Calcium, Total	ND	mg/kg	4.00	1.40	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Chromium, Total	ND	mg/kg	0.400	0.038	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Cobalt, Total	ND	mg/kg	0.800	0.066	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Copper, Total	ND	mg/kg	0.400	0.103	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Iron, Total	ND	mg/kg	2.00	0.361	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Lead, Total	ND	mg/kg	2.00	0.107	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Magnesium, Total	ND	mg/kg	4.00	0.616	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Manganese, Total	ND	mg/kg	0.400	0.064	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Nickel, Total	ND	mg/kg	1.00	0.097	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Potassium, Total	ND	mg/kg	100	5.76	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Selenium, Total	ND	mg/kg	0.800	0.103	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Silver, Total	ND	mg/kg	0.400	0.113	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Sodium, Total	ND	mg/kg	80.0	1.26	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Thallium, Total	ND	mg/kg	0.800	0.126	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Vanadium, Total	ND	mg/kg	0.400	0.081	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB
Zinc, Total	ND	mg/kg	2.00	0.117	1	05/01/19 17:14	05/02/19 22:21	1,6010D	AB

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917794

Project Number: 170500202

Report Date: 05/07/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1232221-2 SRM Lot Number: D101-540								
Mercury, Total	78		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917794

Report Date: 05/07/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1232482-2 SRM Lot Number: D101-540					
Aluminum, Total	78	-	50-151	-	
Antimony, Total	155	-	3-196	-	
Arsenic, Total	98	-	83-117	-	
Barium, Total	92	-	83-118	-	
Beryllium, Total	93	-	83-117	-	
Cadmium, Total	94	-	83-117	-	
Calcium, Total	89	-	81-119	-	
Chromium, Total	94	-	81-118	-	
Cobalt, Total	94	-	84-116	-	
Copper, Total	94	-	83-116	-	
Iron, Total	101	-	62-138	-	
Lead, Total	95	-	83-117	-	
Magnesium, Total	87	-	76-124	-	
Manganese, Total	93	-	82-118	-	
Nickel, Total	94	-	82-117	-	
Potassium, Total	88	-	71-130	-	
Selenium, Total	98	-	79-121	-	
Silver, Total	95	-	80-120	-	
Sodium, Total	92	-	72-127	-	
Thallium, Total	94	-	81-119	-	
Vanadium, Total	97	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917794

Project Number: 170500202

Report Date: 05/07/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1232482-2 SRM Lot Number: D101-540					
Zinc, Total	95	-	81-119	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232221-3 QC Sample: L1900005-02 Client ID: MS Sample												
Mercury, Total	0.116	0.127	0.256	110		-	-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917794

Project Number: 170500202

Report Date: 05/07/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232482-3 QC Sample: L1917799-01 Client ID: MS Sample									
Aluminum, Total	3170	176	4270	624	Q	-	75-125	-	20
Antimony, Total	0.670J	44.1	40.0	91		-	75-125	-	20
Arsenic, Total	0.362J	10.6	10.6	100		-	75-125	-	20
Barium, Total	19.1	176	186	95		-	75-125	-	20
Beryllium, Total	0.176J	4.41	4.27	97		-	75-125	-	20
Cadmium, Total	ND	4.5	3.89	86		-	75-125	-	20
Calcium, Total	587	882	1320	83		-	75-125	-	20
Chromium, Total	9.54	17.6	27.0	99		-	75-125	-	20
Cobalt, Total	3.03	44.1	43.1	91		-	75-125	-	20
Copper, Total	6.93	22	28.3	97		-	75-125	-	20
Iron, Total	15500	88.2	13200	0	Q	-	75-125	-	20
Lead, Total	2.90J	45	43.4	96		-	75-125	-	20
Magnesium, Total	1430	882	2360	105		-	75-125	-	20
Manganese, Total	358	44.1	272	0	Q	-	75-125	-	20
Nickel, Total	5.70	44.1	46.6	93		-	75-125	-	20
Potassium, Total	390	882	1290	102		-	75-125	-	20
Selenium, Total	ND	10.6	9.94	94		-	75-125	-	20
Silver, Total	ND	26.4	24.2	92		-	75-125	-	20
Sodium, Total	29.1J	882	886	100		-	75-125	-	20
Thallium, Total	ND	10.6	8.39	79		-	75-125	-	20
Vanadium, Total	16.3	44.1	55.6	89		-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917794

Project Number: 170500202

Report Date: 05/07/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232482-3 QC Sample: L1917799-01 Client ID: MS Sample									
Zinc, Total	21.3	44.1	59.9	88	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917794

Report Date: 05/07/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232221-4 QC Sample: L1900005-02 Client ID: DUP Sample						
Mercury, Total	0.116	0.117	mg/kg	1		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917794

Report Date: 05/07/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232482-4 QC Sample: L1917799-01 Client ID: DUP Sample					
Aluminum, Total	3170	3670	mg/kg	15	20
Antimony, Total	0.670J	0.521J	mg/kg	NC	20
Arsenic, Total	0.362J	0.493J	mg/kg	NC	20
Barium, Total	19.1	30.2	mg/kg	45 Q	20
Beryllium, Total	0.176J	0.174J	mg/kg	NC	20
Cadmium, Total	ND	ND	mg/kg	NC	20
Calcium, Total	587	830	mg/kg	34 Q	20
Chromium, Total	9.54	9.34	mg/kg	2	20
Cobalt, Total	3.03	3.37	mg/kg	11	20
Copper, Total	6.93	9.70	mg/kg	33 Q	20
Iron, Total	15500	13600	mg/kg	13	20
Lead, Total	2.90J	4.06J	mg/kg	NC	20
Magnesium, Total	1430	1180	mg/kg	19	20
Manganese, Total	358	377	mg/kg	5	20
Nickel, Total	5.70	8.99	mg/kg	45 Q	20
Potassium, Total	390	270	mg/kg	36 Q	20
Selenium, Total	ND	ND	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	29.1J	77.0J	mg/kg	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917794

Report Date: 05/07/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232482-4 QC Sample: L1917799-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	16.3	15.3	mg/kg	6	20
Zinc, Total	21.3	15.4	mg/kg	32 Q	20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

SAMPLE RESULTS

Lab ID: L1917794-01
Client ID: EP19_12.5_043019
Sample Location: NY, NY

Date Collected: 04/30/19 14:45
Date Received: 04/30/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.8		%	0.100	NA	1	-	05/01/19 04:13	121,2540G	YA
Cyanide, Total	0.28	J	mg/kg	0.99	0.21	1	05/01/19 17:45	05/02/19 14:05	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.826	0.165	1	05/01/19 10:20	05/01/19 17:45	1,7196A	NH



Project Name: 300 WEST 122ND ST.

Lab Number: L1917794

Project Number: 170500202

Report Date: 05/07/19

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): 01 Batch: WG1232324-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	05/01/19 10:20	05/01/19 17:45	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1232346-1									
Cyanide, Total	ND	mg/kg	0.85	0.18	1	05/01/19 17:45	05/02/19 13:58	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917794

Report Date: 05/07/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1232324-2								
Chromium, Hexavalent	109		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1232346-2 WG1232346-3								
Cyanide, Total	73	Q	39	Q	80-120	53	Q	35

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917794

Project Number: 170500202

Report Date: 05/07/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1232324-4 QC Sample: L1917794-01 Client ID: EP19_12.5_043019											
Chromium, Hexavalent	ND	866	941	109	-	-	-	-	75-125	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1232346-4 WG1232346-5 QC Sample: L1917857-01 Client ID: MS Sample											
Cyanide, Total	0.51J	10	10	93	11	99	99	10	75-125	10	35

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917794

Report Date: 05/07/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1232183-1 QC Sample: L1915494-02 Client ID: DUP Sample						
Solids, Total	79.4	78.6	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1232324-6 QC Sample: L1917794-01 Client ID: EP19_12.5_043019						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Serial_No:05071916:59
Lab Number: L1917794
Report Date: 05/07/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1917794-01A	Vial MeOH preserved	A	NA		3.7	Y	Absent		NYTCL-8260HLW(14)
L1917794-01B	Vial water preserved	A	NA		3.7	Y	Absent	01-MAY-19 02:17	NYTCL-8260HLW(14)
L1917794-01C	Vial water preserved	A	NA		3.7	Y	Absent	01-MAY-19 02:17	NYTCL-8260HLW(14)
L1917794-01D	Plastic 2oz unpreserved for TS	A	NA		3.7	Y	Absent		TS(7)
L1917794-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.7	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)
L1917794-01F	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1917794-01G	Glass 500ml/16oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

- 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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917794
Report Date: 05/07/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK 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>	Date Rec'd in Lab <u>5/11/19</u>	ALPHA Job # <u>L1917794</u>		
		of <u>1</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		Deliverables	Billing Information	
Client Information		Project Name: <u>300 West 122nd St.</u>		<input type="checkbox"/> ASP-A	<input checked="" type="checkbox"/> Same as Client Info	
Client: <u>LANGAN, DPC</u>		Project Location: <u>NY, NY</u>		<input type="checkbox"/> EQUIS (1 File)	PO #	
Address: <u>300 West 31st St, Flr B</u>		Project # <u>170500202</u>		<input type="checkbox"/> Other		
<u>NY, NY 10001</u>		(Use Project name as Project #) <input type="checkbox"/>		<input type="checkbox"/> NY TOGS	Disposal Site Information	
Project Manager: <u>Greg Wyka</u>		ALPHAQuote #:		<input type="checkbox"/> AWQ Standards	Please identify below location of applicable disposal facilities.	
Phone:		Turn-Around Time		<input type="checkbox"/> NY Restricted Use	Disposal Facility:	
Fax:		Standard <input checked="" type="checkbox"/>		<input type="checkbox"/> NY CP-51	<input type="checkbox"/> NJ <input type="checkbox"/> NY	
Email: <u>G.WYKA@LANGAN.COM</u>		Due Date:		<input type="checkbox"/> Other	<input type="checkbox"/> Other:	
Rush (only if pre-approved) <input checked="" type="checkbox"/>		# of Days:		<input type="checkbox"/> NY Unrestricted Use		
These samples have been previously analyzed by Alpha <input type="checkbox"/>				<input type="checkbox"/> NYC Sewer Discharge		
Other project specific requirements/comments:				ANALYSIS	Sample Filtration	
Please specify Metals or TAL.				Part + 375/TCL VOCs SVOCs PCBs Pest/Herb TAL Metals + hex/for (chromium + bot: cyanide)	<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)	
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Sample Specific Comments
		Date	Time			
<u>17794 - 01</u>	<u>ED19-12.5-043019</u>	<u>4/30/19</u>	<u>1445</u>	<u>SOIL</u>	<u>AS</u>	
Preservative Code:		Westboro: Certification No: MA935		Container Type		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.)
Container Code		Mansfield: Certification No: MA015		Preservative		
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						
P = Plastic						
A = Amber Glass						
V = Vial						
G = Glass						
B = Bacteria Cup						
C = Cube						
O = Other						
E = Encore						
D = BOD Bottle						
		Relinquished By:		Received By:		
		<u>Orsley Stappbeck</u>		<u>[Signature]</u>		
		Date/Time: <u>4/30/19 1620</u>		Date/Time: <u>4/30/19 1620</u>		
		<u>[Signature]</u>		<u>[Signature]</u>		
		Date/Time: <u>4/30/19 1800</u>		Date/Time: <u>4/30/19 1800</u>		
		<u>[Signature]</u>		<u>[Signature]</u>		
		Date/Time: <u>5/11/19 00:10</u>		Date/Time: <u>5/11/19 00:10</u>		
		<u>[Signature]</u>		<u>[Signature]</u>		



ANALYTICAL REPORT

Lab Number:	L1915326
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND STREET
Project Number:	170500202
Report Date:	04/16/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1915326-01	EP20_SE_11_0415219	SOIL	NY. NY	04/15/19 09:15	04/15/19
L1915326-02	EP20_S_12_0415219	SOIL	NY. NY	04/15/19 09:45	04/15/19
L1915326-03	EP20_NE_12_0415219	SOIL	NY. NY	04/15/19 15:15	04/15/19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

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.

Total Metals


L1915326-01, -02, and -03: 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.

Cyanide, Total

The WG1226706-2/-3 LCS/LCSD recoveries (70%/63%), associated with L1915326-01, -02, and -03, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: 04/16/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-01
 Client ID: EP20_SE_11_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/16/19 09:52
 Analyst: JC
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.65	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 300 WEST 122ND STREET

Lab Number: L1915326

Project Number: 170500202

Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-01
 Client ID: EP20_SE_11_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.67	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.78	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-01
 Client ID: EP20_SE_11_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	96	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	98		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-02
 Client ID: EP20_S_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:45
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/16/19 09:00
 Analyst: MV
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 300 WEST 122ND STREET**Lab Number:** L1915326**Project Number:** 170500202**Report Date:** 04/16/19**SAMPLE RESULTS**

Lab ID: L1915326-02
 Client ID: EP20_S_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:45
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	9.5	J	ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-02
Client ID: EP20_S_12_0415219
Sample Location: NY. NY

Date Collected: 04/15/19 09:45
Date Received: 04/15/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	97		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-03
 Client ID: EP20_NE_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 15:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/16/19 09:26
 Analyst: MV
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.6	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.66	0.26	1
Chlorobenzene	ND		ug/kg	0.66	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.92	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	0.22	1
Bromodichloromethane	ND		ug/kg	0.66	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.66	0.21	1
Bromoform	ND		ug/kg	5.3	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.22	1
Benzene	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.72	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.3	1.2	1
Bromomethane	ND		ug/kg	2.6	0.76	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.60	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 300 WEST 122ND STREET

Lab Number: L1915326

Project Number: 170500202

Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-03
 Client ID: EP20_NE_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 15:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.74	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.3	1
Carbon disulfide	ND		ug/kg	13	6.0	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.17	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.37	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.16	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.3	0.86	1
Acrylonitrile	ND		ug/kg	5.3	1.5	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-03
Client ID: EP20_NE_12_0415219
Sample Location: NY. NY

Date Collected: 04/15/19 15:15
Date Received: 04/15/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
1,4-Dioxane	ND		ug/kg	100	46.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.50	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.6	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	99		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/16/19 08:34
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1226794-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	1.5	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/16/19 08:34
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1226794-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 04/16/19 08:34
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1226794-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1915326

Project Number: 170500202

Report Date: 04/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1226794-3 WG1226794-4								
Methylene chloride	106		95		70-130	11		30
1,1-Dichloroethane	122		106		70-130	14		30
Chloroform	113		95		70-130	17		30
Carbon tetrachloride	102		87		70-130	16		30
1,2-Dichloropropane	119		107		70-130	11		30
Dibromochloromethane	95		87		70-130	9		30
1,1,2-Trichloroethane	106		97		70-130	9		30
Tetrachloroethene	91		77		70-130	17		30
Chlorobenzene	97		86		70-130	12		30
Trichlorofluoromethane	82		71		70-139	14		30
1,2-Dichloroethane	115		106		70-130	8		30
1,1,1-Trichloroethane	106		90		70-130	16		30
Bromodichloromethane	108		98		70-130	10		30
trans-1,3-Dichloropropene	108		98		70-130	10		30
cis-1,3-Dichloropropene	108		98		70-130	10		30
1,1-Dichloropropene	112		96		70-130	15		30
Bromoform	91		84		70-130	8		30
1,1,1,2-Tetrachloroethane	106		98		70-130	8		30
Benzene	110		97		70-130	13		30
Toluene	106		92		70-130	14		30
Ethylbenzene	104		91		70-130	13		30
Chloromethane	110		90		52-130	20		30
Bromomethane	93		80		57-147	15		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1915326

Project Number: 170500202

Report Date: 04/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1226794-3 WG1226794-4								
Vinyl chloride	96		80		67-130	18		30
Chloroethane	95		82		50-151	15		30
1,1-Dichloroethene	100		83		65-135	19		30
trans-1,2-Dichloroethene	100		88		70-130	13		30
Trichloroethene	105		92		70-130	13		30
1,2-Dichlorobenzene	93		86		70-130	8		30
1,3-Dichlorobenzene	95		85		70-130	11		30
1,4-Dichlorobenzene	95		85		70-130	11		30
Methyl tert butyl ether	98		92		66-130	6		30
p/m-Xylene	97		85		70-130	13		30
o-Xylene	96		85		70-130	12		30
cis-1,2-Dichloroethene	101		86		70-130	16		30
Dibromomethane	101		93		70-130	8		30
Styrene	94		85		70-130	10		30
Dichlorodifluoromethane	80		66		30-146	19		30
Acetone	130		107		54-140	19		30
Carbon disulfide	109		90		59-130	19		30
2-Butanone	89		95		70-130	7		30
Vinyl acetate	118		106		70-130	11		30
4-Methyl-2-pentanone	97		94		70-130	3		30
1,2,3-Trichloropropane	104		98		68-130	6		30
2-Hexanone	102		95		70-130	7		30
Bromochloromethane	96		89		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1915326

Project Number: 170500202

Report Date: 04/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1226794-3 WG1226794-4								
2,2-Dichloropropane	114		98		70-130	15		30
1,2-Dibromoethane	96		90		70-130	6		30
1,3-Dichloropropane	107		100		69-130	7		30
1,1,1,2-Tetrachloroethane	96		86		70-130	11		30
Bromobenzene	92		83		70-130	10		30
n-Butylbenzene	111		96		70-130	14		30
sec-Butylbenzene	106		91		70-130	15		30
tert-Butylbenzene	100		86		70-130	15		30
o-Chlorotoluene	91		80		70-130	13		30
p-Chlorotoluene	107		96		70-130	11		30
1,2-Dibromo-3-chloropropane	81		79		68-130	3		30
Hexachlorobutadiene	91		79		67-130	14		30
Isopropylbenzene	104		90		70-130	14		30
p-Isopropyltoluene	100		86		70-130	15		30
Naphthalene	82		78		70-130	5		30
Acrylonitrile	101		103		70-130	2		30
n-Propylbenzene	111		95		70-130	16		30
1,2,3-Trichlorobenzene	83		79		70-130	5		30
1,2,4-Trichlorobenzene	87		81		70-130	7		30
1,3,5-Trimethylbenzene	105		91		70-130	14		30
1,2,4-Trimethylbenzene	102		89		70-130	14		30
1,4-Dioxane	83		92		65-136	10		30
p-Diethylbenzene	99		86		70-130	14		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1915326

Report Date: 04/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1226794-3 WG1226794-4								
p-Ethyltoluene	105		90		70-130	15		30
1,2,4,5-Tetramethylbenzene	94		84		70-130	11		30
Ethyl ether	107		96		67-130	11		30
trans-1,4-Dichloro-2-butene	115		109		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		108		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	113		110		70-130
Dibromofluoromethane	100		100		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-01
 Client ID: EP20_SE_11_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/16/19 08:57
 Analyst: SZ
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 04/16/19 01:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-01
 Client ID: EP20_SE_11_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	830	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-01
 Client ID: EP20_SE_11_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	88		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-02
 Client ID: EP20_S_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:45
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/16/19 09:22
 Analyst: SZ
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 04/16/19 01:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-02
 Client ID: EP20_S_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:45
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	34.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	380	65.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-02
 Client ID: EP20_S_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:45
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	94		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-03
 Client ID: EP20_NE_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 15:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/16/19 09:48
 Analyst: SZ
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 04/16/19 01:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-03
 Client ID: EP20_NE_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 15:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	830	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-03
 Client ID: EP20_NE_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 15:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	91		25-120
Phenol-d6	97		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	107		10-136
4-Terphenyl-d14	93		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/16/19 01:11
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/15/19 14:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1226528-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/16/19 01:11
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/15/19 14:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1226528-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 04/16/19 01:11
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/15/19 14:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1226528-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	67		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1915326

Project Number: 170500202

Report Date: 04/16/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1226528-2 WG1226528-3								
Acenaphthene	64		62		31-137	3		50
1,2,4-Trichlorobenzene	61		60		38-107	2		50
Hexachlorobenzene	66		64		40-140	3		50
Bis(2-chloroethyl)ether	63		62		40-140	2		50
2-Chloronaphthalene	66		64		40-140	3		50
1,2-Dichlorobenzene	61		61		40-140	0		50
1,3-Dichlorobenzene	60		59		40-140	2		50
1,4-Dichlorobenzene	60		58		28-104	3		50
3,3'-Dichlorobenzidine	54		52		40-140	4		50
2,4-Dinitrotoluene	80		76		40-132	5		50
2,6-Dinitrotoluene	74		70		40-140	6		50
Fluoranthene	62		59		40-140	5		50
4-Chlorophenyl phenyl ether	64		63		40-140	2		50
4-Bromophenyl phenyl ether	64		63		40-140	2		50
Bis(2-chloroisopropyl)ether	77		75		40-140	3		50
Bis(2-chloroethoxy)methane	70		69		40-117	1		50
Hexachlorobutadiene	61		61		40-140	0		50
Hexachlorocyclopentadiene	46		45		40-140	2		50
Hexachloroethane	71		70		40-140	1		50
Isophorone	72		71		40-140	1		50
Naphthalene	64		63		40-140	2		50
Nitrobenzene	72		72		40-140	0		50
NDPA/DPA	68		67		36-157	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1915326

Project Number: 170500202

Report Date: 04/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1226528-2 WG1226528-3								
n-Nitrosodi-n-propylamine	71		72		32-121	1		50
Bis(2-ethylhexyl)phthalate	86		83		40-140	4		50
Butyl benzyl phthalate	68		64		40-140	6		50
Di-n-butylphthalate	78		74		40-140	5		50
Di-n-octylphthalate	94		91		40-140	3		50
Diethyl phthalate	75		74		40-140	1		50
Dimethyl phthalate	72		69		40-140	4		50
Benzo(a)anthracene	71		70		40-140	1		50
Benzo(a)pyrene	72		69		40-140	4		50
Benzo(b)fluoranthene	67		67		40-140	0		50
Benzo(k)fluoranthene	73		69		40-140	6		50
Chrysene	70		67		40-140	4		50
Acenaphthylene	66		65		40-140	2		50
Anthracene	63		60		40-140	5		50
Benzo(ghi)perylene	66		63		40-140	5		50
Fluorene	65		64		40-140	2		50
Phenanthrene	62		59		40-140	5		50
Dibenzo(a,h)anthracene	66		62		40-140	6		50
Indeno(1,2,3-cd)pyrene	64		62		40-140	3		50
Pyrene	62		58		35-142	7		50
Biphenyl	68		67		54-104	1		50
4-Chloroaniline	58		56		40-140	4		50
2-Nitroaniline	75		73		47-134	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1915326

Project Number: 170500202

Report Date: 04/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1226528-2 WG1226528-3								
3-Nitroaniline	64		61		26-129	5		50
4-Nitroaniline	76		73		41-125	4		50
Dibenzofuran	67		65		40-140	3		50
2-Methylnaphthalene	64		62		40-140	3		50
1,2,4,5-Tetrachlorobenzene	66		65		40-117	2		50
Acetophenone	73		72		14-144	1		50
2,4,6-Trichlorophenol	70		68		30-130	3		50
p-Chloro-m-cresol	79		74		26-103	7		50
2-Chlorophenol	71		71		25-102	0		50
2,4-Dichlorophenol	72		71		30-130	1		50
2,4-Dimethylphenol	75		74		30-130	1		50
2-Nitrophenol	77		77		30-130	0		50
4-Nitrophenol	89		84		11-114	6		50
2,4-Dinitrophenol	64		62		4-130	3		50
4,6-Dinitro-o-cresol	76		72		10-130	5		50
Pentachlorophenol	58		56		17-109	4		50
Phenol	73		70		26-90	4		50
2-Methylphenol	73		73		30-130.	0		50
3-Methylphenol/4-Methylphenol	70		68		30-130	3		50
2,4,5-Trichlorophenol	75		72		30-130	4		50
Benzoic Acid	57		56		10-110	2		50
Benzyl Alcohol	75		73		40-140	3		50
Carbazole	66		63		54-128	5		50

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1226528-2 WG1226528-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	73		71		25-120
Phenol-d6	75		73		10-120
Nitrobenzene-d5	73		72		23-120
2-Fluorobiphenyl	62		62		30-120
2,4,6-Tribromophenol	79		77		10-136
4-Terphenyl-d14	59		57		18-120

PCBS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-01
 Client ID: EP20_SE_11_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/16/19 11:47
 Analyst: WR
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 04/16/19 01:32
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.1	3.03	1	A
Aroclor 1221	ND		ug/kg	34.1	3.42	1	A
Aroclor 1232	ND		ug/kg	34.1	7.23	1	A
Aroclor 1242	ND		ug/kg	34.1	4.60	1	A
Aroclor 1248	ND		ug/kg	34.1	5.11	1	A
Aroclor 1254	ND		ug/kg	34.1	3.73	1	A
Aroclor 1260	ND		ug/kg	34.1	6.30	1	A
Aroclor 1262	ND		ug/kg	34.1	4.33	1	A
Aroclor 1268	ND		ug/kg	34.1	3.53	1	A
PCBs, Total	ND		ug/kg	34.1	3.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-02
 Client ID: EP20_S_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:45
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/16/19 11:59
 Analyst: WR
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 04/16/19 01:32
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.6	2.98	1	A
Aroclor 1221	ND		ug/kg	33.6	3.37	1	A
Aroclor 1232	ND		ug/kg	33.6	7.13	1	A
Aroclor 1242	ND		ug/kg	33.6	4.53	1	A
Aroclor 1248	ND		ug/kg	33.6	5.04	1	A
Aroclor 1254	ND		ug/kg	33.6	3.68	1	A
Aroclor 1260	ND		ug/kg	33.6	6.21	1	A
Aroclor 1262	ND		ug/kg	33.6	4.27	1	A
Aroclor 1268	ND		ug/kg	33.6	3.48	1	A
PCBs, Total	ND		ug/kg	33.6	2.98	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-03
 Client ID: EP20_NE_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 15:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/16/19 12:12
 Analyst: WR
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 04/16/19 01:32
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.5	3.06	1	A
Aroclor 1221	ND		ug/kg	34.5	3.46	1	A
Aroclor 1232	ND		ug/kg	34.5	7.31	1	A
Aroclor 1242	ND		ug/kg	34.5	4.65	1	A
Aroclor 1248	ND		ug/kg	34.5	5.17	1	A
Aroclor 1254	ND		ug/kg	34.5	3.77	1	A
Aroclor 1260	ND		ug/kg	34.5	6.37	1	A
Aroclor 1262	ND		ug/kg	34.5	4.38	1	A
Aroclor 1268	ND		ug/kg	34.5	3.57	1	A
PCBs, Total	ND		ug/kg	34.5	3.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 04/16/19 11:10
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 04/15/19 18:21
Cleanup Method: EPA 3665A
Cleanup Date: 04/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG1226610-1						
Aroclor 1016	ND		ug/kg	31.6	2.81	A
Aroclor 1221	ND		ug/kg	31.6	3.17	A
Aroclor 1232	ND		ug/kg	31.6	6.70	A
Aroclor 1242	ND		ug/kg	31.6	4.26	A
Aroclor 1248	ND		ug/kg	31.6	4.74	A
Aroclor 1254	ND		ug/kg	31.6	3.46	A
Aroclor 1260	ND		ug/kg	31.6	5.84	A
Aroclor 1262	ND		ug/kg	31.6	4.01	A
Aroclor 1268	ND		ug/kg	31.6	3.27	A
PCBs, Total	ND		ug/kg	31.6	2.81	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	64		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1915326

Report Date: 04/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1226610-2 WG1226610-3									
Aroclor 1016	79		77		40-140	3		50	A
Aroclor 1260	71		71		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		72		30-150	A
Decachlorobiphenyl	75		73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		75		30-150	B
Decachlorobiphenyl	70		69		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-01
Client ID: EP20_SE_11_0415219
Sample Location: NY. NY

Date Collected: 04/15/19 09:15
Date Received: 04/15/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/16/19 15:38
Analyst: KEG
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 04/16/19 01:42
Cleanup Method: EPA 3620B
Cleanup Date: 04/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.329	1	A
Lindane	ND		ug/kg	0.700	0.313	1	A
Alpha-BHC	ND		ug/kg	0.700	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.637	1	A
Heptachlor	ND		ug/kg	0.840	0.376	1	A
Aldrin	ND		ug/kg	1.68	0.591	1	A
Heptachlor epoxide	ND		ug/kg	3.15	0.945	1	A
Endrin	ND		ug/kg	0.700	0.287	1	A
Endrin aldehyde	ND		ug/kg	2.10	0.735	1	A
Endrin ketone	ND		ug/kg	1.68	0.432	1	A
Dieldrin	ND		ug/kg	1.05	0.525	1	A
4,4'-DDE	ND		ug/kg	1.68	0.388	1	A
4,4'-DDD	ND		ug/kg	1.68	0.599	1	A
4,4'-DDT	ND		ug/kg	3.15	1.35	1	A
Endosulfan I	ND		ug/kg	1.68	0.397	1	A
Endosulfan II	ND		ug/kg	1.68	0.561	1	A
Endosulfan sulfate	ND		ug/kg	0.700	0.333	1	A
Methoxychlor	ND		ug/kg	3.15	0.980	1	A
Toxaphene	ND		ug/kg	31.5	8.82	1	A
cis-Chlordane	ND		ug/kg	2.10	0.585	1	A
trans-Chlordane	ND		ug/kg	2.10	0.554	1	A
Chlordane	ND		ug/kg	13.6	5.56	1	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-01
 Client ID: EP20_SE_11_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	109		30-150	B
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	108		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-01
 Client ID: EP20_SE_11_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/16/19 10:21
 Analyst: DGM
 Percent Solids: 94%
 Methylation Date: 04/16/19 08:27

Extraction Method: EPA 8151A
 Extraction Date: 04/16/19 01:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	172	10.8	1	A
2,4,5-T	ND		ug/kg	172	5.32	1	A
2,4,5-TP (Silvex)	ND		ug/kg	172	4.57	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	101		30-150	A
DCAA	88		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-02
 Client ID: EP20_S_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:45
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/16/19 17:22
 Analyst: KEG
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 04/16/19 01:42
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.59	0.312	1	A
Lindane	ND		ug/kg	0.664	0.297	1	A
Alpha-BHC	ND		ug/kg	0.664	0.189	1	A
Beta-BHC	ND		ug/kg	1.59	0.604	1	A
Heptachlor	ND		ug/kg	0.797	0.357	1	A
Aldrin	ND		ug/kg	1.59	0.561	1	A
Heptachlor epoxide	ND		ug/kg	2.99	0.897	1	A
Endrin	ND		ug/kg	0.664	0.272	1	A
Endrin aldehyde	ND		ug/kg	1.99	0.697	1	A
Endrin ketone	ND		ug/kg	1.59	0.410	1	A
Dieldrin	ND		ug/kg	0.996	0.498	1	A
4,4'-DDE	ND		ug/kg	1.59	0.369	1	A
4,4'-DDD	ND		ug/kg	1.59	0.569	1	A
4,4'-DDT	ND		ug/kg	2.99	1.28	1	A
Endosulfan I	ND		ug/kg	1.59	0.377	1	A
Endosulfan II	ND		ug/kg	1.59	0.533	1	A
Endosulfan sulfate	ND		ug/kg	0.664	0.316	1	A
Methoxychlor	ND		ug/kg	2.99	0.930	1	A
Toxaphene	ND		ug/kg	29.9	8.37	1	A
cis-Chlordane	ND		ug/kg	1.99	0.555	1	A
trans-Chlordane	ND		ug/kg	1.99	0.526	1	A
Chlordane	ND		ug/kg	13.0	5.28	1	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-02
 Client ID: EP20_S_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:45
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	37		30-150	B
Decachlorobiphenyl	76		30-150	B
2,4,5,6-Tetrachloro-m-xylene	38		30-150	A
Decachlorobiphenyl	39		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-02
 Client ID: EP20_S_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:45
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/16/19 10:40
 Analyst: DGM
 Percent Solids: 95%
 Methylation Date: 04/16/19 08:27

Extraction Method: EPA 8151A
 Extraction Date: 04/16/19 01:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	170	10.7	1	A
2,4,5-T	ND		ug/kg	170	5.28	1	A
2,4,5-TP (Silvex)	ND		ug/kg	170	4.53	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	101		30-150	A
DCAA	90		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-03
Client ID: EP20_NE_12_0415219
Sample Location: NY. NY

Date Collected: 04/15/19 15:15
Date Received: 04/15/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/16/19 16:03
Analyst: KEG
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 04/16/19 01:42
Cleanup Method: EPA 3620B
Cleanup Date: 04/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.63	0.320	1	A
Lindane	ND		ug/kg	0.680	0.304	1	A
Alpha-BHC	ND		ug/kg	0.680	0.193	1	A
Beta-BHC	ND		ug/kg	1.63	0.619	1	A
Heptachlor	ND		ug/kg	0.816	0.366	1	A
Aldrin	ND		ug/kg	1.63	0.575	1	A
Heptachlor epoxide	ND		ug/kg	3.06	0.919	1	A
Endrin	ND		ug/kg	0.680	0.279	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.714	1	A
Endrin ketone	ND		ug/kg	1.63	0.420	1	A
Dieldrin	ND		ug/kg	1.02	0.510	1	A
4,4'-DDE	ND		ug/kg	1.63	0.378	1	A
4,4'-DDD	ND		ug/kg	1.63	0.582	1	A
4,4'-DDT	ND		ug/kg	3.06	1.31	1	A
Endosulfan I	ND		ug/kg	1.63	0.386	1	A
Endosulfan II	ND		ug/kg	1.63	0.546	1	A
Endosulfan sulfate	ND		ug/kg	0.680	0.324	1	A
Methoxychlor	ND		ug/kg	3.06	0.953	1	A
Toxaphene	ND		ug/kg	30.6	8.57	1	A
cis-Chlordane	ND		ug/kg	2.04	0.569	1	A
trans-Chlordane	ND		ug/kg	2.04	0.539	1	A
Chlordane	ND		ug/kg	13.3	5.41	1	A

Project Name: 300 WEST 122ND STREET**Lab Number:** L1915326**Project Number:** 170500202**Report Date:** 04/16/19**SAMPLE RESULTS**

Lab ID: L1915326-03
 Client ID: EP20_NE_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 15:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	102		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	95		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-03
 Client ID: EP20_NE_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 15:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/16/19 10:59
 Analyst: AMC
 Percent Solids: 94%
 Methylation Date: 04/16/19 08:27

Extraction Method: EPA 8151A
 Extraction Date: 04/16/19 01:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	173	10.9	1	A
2,4,5-T	ND		ug/kg	173	5.35	1	A
2,4,5-TP (Silvex)	ND		ug/kg	173	4.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	107		30-150	A
DCAA	94		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 04/16/19 11:37
Analyst: AMC

Extraction Method: EPA 8151A
Extraction Date: 04/16/19 00:31

Methylation Date: 04/16/19 08:27

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1226668-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.08	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.36	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	96		30-150	A
DCAA	84		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/16/19 15:00
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 04/16/19 01:42
Cleanup Method: EPA 3620B
Cleanup Date: 04/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1226674-1						
Delta-BHC	ND		ug/kg	1.55	0.304	A
Lindane	ND		ug/kg	0.648	0.290	A
Alpha-BHC	ND		ug/kg	0.648	0.184	A
Beta-BHC	ND		ug/kg	1.55	0.589	A
Heptachlor	ND		ug/kg	0.777	0.348	A
Aldrin	ND		ug/kg	1.55	0.547	A
Heptachlor epoxide	ND		ug/kg	2.91	0.874	A
Endrin	ND		ug/kg	0.648	0.266	A
Endrin aldehyde	ND		ug/kg	1.94	0.680	A
Endrin ketone	ND		ug/kg	1.55	0.400	A
Dieldrin	ND		ug/kg	0.972	0.486	A
4,4'-DDE	ND		ug/kg	1.55	0.359	A
4,4'-DDD	ND		ug/kg	1.55	0.554	A
4,4'-DDT	ND		ug/kg	2.91	1.25	A
Endosulfan I	ND		ug/kg	1.55	0.367	A
Endosulfan II	ND		ug/kg	1.55	0.519	A
Endosulfan sulfate	ND		ug/kg	0.648	0.308	A
Methoxychlor	ND		ug/kg	2.91	0.907	A
Toxaphene	ND		ug/kg	29.1	8.16	A
cis-Chlordane	ND		ug/kg	1.94	0.541	A
trans-Chlordane	ND		ug/kg	1.94	0.513	A
Chlordane	ND		ug/kg	12.6	5.15	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 04/16/19 15:00
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 04/16/19 01:42
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1226674-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	114		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	96		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1226668-2 WG1226668-3									
2,4-D	106		104		30-150	2		30	A
2,4,5-T	96		96		30-150	0		30	A
2,4,5-TP (Silvex)	102		101		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	104		101		30-150	A
DCAA	96		95		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1915326

Report Date: 04/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1226674-2 WG1226674-3									
Delta-BHC	91		90		30-150	1		30	A
Lindane	90		88		30-150	2		30	A
Alpha-BHC	94		94		30-150	0		30	A
Beta-BHC	92		88		30-150	4		30	A
Heptachlor	121		117		30-150	3		30	A
Aldrin	92		91		30-150	1		30	A
Heptachlor epoxide	109		98		30-150	11		30	A
Endrin	99		96		30-150	3		30	A
Endrin aldehyde	70		68		30-150	3		30	A
Endrin ketone	85		82		30-150	4		30	A
Dieldrin	98		97		30-150	1		30	A
4,4'-DDE	86		86		30-150	0		30	A
4,4'-DDD	92		90		30-150	2		30	A
4,4'-DDT	99		98		30-150	1		30	A
Endosulfan I	89		89		30-150	0		30	A
Endosulfan II	90		89		30-150	1		30	A
Endosulfan sulfate	74		75		30-150	1		30	A
Methoxychlor	93		88		30-150	6		30	A
cis-Chlordane	82		82		30-150	0		30	A
trans-Chlordane	111		94		30-150	17		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1226674-2 WG1226674-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		86		30-150	B
Decachlorobiphenyl	117		109		30-150	B
2,4,5,6-Tetrachloro-m-xylene	84		84		30-150	A
Decachlorobiphenyl	97		95		30-150	A

METALS

Project Name: 300 WEST 122ND STREET

Lab Number: L1915326

Project Number: 170500202

Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-01
 Client ID: EP20_SE_11_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 09:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1710		mg/kg	8.28	2.24	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Antimony, Total	0.513	J	mg/kg	4.14	0.314	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Arsenic, Total	0.679	J	mg/kg	0.828	0.172	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Barium, Total	19.8		mg/kg	0.828	0.144	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Beryllium, Total	0.174	J	mg/kg	0.414	0.027	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.828	0.081	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Calcium, Total	573		mg/kg	8.28	2.90	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Chromium, Total	7.83		mg/kg	0.828	0.080	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Cobalt, Total	4.74		mg/kg	1.66	0.137	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Copper, Total	12.6		mg/kg	0.828	0.214	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Iron, Total	6220		mg/kg	4.14	0.748	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Lead, Total	2.06	J	mg/kg	4.14	0.222	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Magnesium, Total	2880		mg/kg	8.28	1.27	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Manganese, Total	193		mg/kg	0.828	0.132	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.067	0.014	1	04/16/19 08:45	04/16/19 10:36	EPA 7471B	1,7471B	GD
Nickel, Total	12.0		mg/kg	2.07	0.200	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Potassium, Total	358		mg/kg	207	11.9	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.66	0.214	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.828	0.234	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Sodium, Total	47.9	J	mg/kg	166	2.61	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.66	0.261	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Vanadium, Total	6.00		mg/kg	0.828	0.168	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
Zinc, Total	9.59		mg/kg	4.14	0.242	2	04/16/19 08:00	04/16/19 10:30	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.8		mg/kg	0.85	0.85	1		04/16/19 10:30	NA	107,-	



Project Name: 300 WEST 122ND STREET

Lab Number: L1915326

Project Number: 170500202

Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-02

Date Collected: 04/15/19 09:45

Client ID: EP20_S_12_0415219

Date Received: 04/15/19

Sample Location: NY. NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1840		mg/kg	8.04	2.17	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.02	0.306	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Arsenic, Total	0.860		mg/kg	0.804	0.167	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Barium, Total	17.5		mg/kg	0.804	0.140	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Beryllium, Total	0.145	J	mg/kg	0.402	0.027	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.804	0.079	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Calcium, Total	780		mg/kg	8.04	2.81	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Chromium, Total	5.27		mg/kg	0.804	0.077	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Cobalt, Total	2.34		mg/kg	1.61	0.133	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Copper, Total	9.18		mg/kg	0.804	0.207	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Iron, Total	5060		mg/kg	4.02	0.726	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Lead, Total	2.42	J	mg/kg	4.02	0.215	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Magnesium, Total	1030		mg/kg	8.04	1.24	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Manganese, Total	220		mg/kg	0.804	0.128	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Mercury, Total	0.042	J	mg/kg	0.066	0.014	1	04/16/19 08:45	04/16/19 10:42	EPA 7471B	1,7471B	GD
Nickel, Total	6.04		mg/kg	2.01	0.194	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Potassium, Total	442		mg/kg	201	11.6	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Selenium, Total	0.233	J	mg/kg	1.61	0.207	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.804	0.228	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Sodium, Total	43.2	J	mg/kg	161	2.53	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.61	0.253	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Vanadium, Total	6.88		mg/kg	0.804	0.163	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
Zinc, Total	8.42		mg/kg	4.02	0.236	2	04/16/19 08:00	04/16/19 10:34	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.3		mg/kg	0.84	0.84	1		04/16/19 10:34	NA	107,-	



Project Name: 300 WEST 122ND STREET

Lab Number: L1915326

Project Number: 170500202

Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-03
 Client ID: EP20_NE_12_0415219
 Sample Location: NY. NY

Date Collected: 04/15/19 15:15
 Date Received: 04/15/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2250		mg/kg	8.03	2.17	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.02	0.305	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Arsenic, Total	0.610	J	mg/kg	0.803	0.167	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Barium, Total	26.6		mg/kg	0.803	0.140	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Beryllium, Total	0.177	J	mg/kg	0.402	0.027	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.803	0.079	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Calcium, Total	607		mg/kg	8.03	2.81	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Chromium, Total	9.75		mg/kg	0.803	0.077	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Cobalt, Total	6.63		mg/kg	1.61	0.133	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Copper, Total	11.5		mg/kg	0.803	0.207	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Iron, Total	5020		mg/kg	4.02	0.725	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Lead, Total	2.73	J	mg/kg	4.02	0.215	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Magnesium, Total	1450		mg/kg	8.03	1.24	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Manganese, Total	223		mg/kg	0.803	0.128	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Mercury, Total	0.079		mg/kg	0.067	0.014	1	04/16/19 08:45	04/16/19 10:44	EPA 7471B	1,7471B	GD
Nickel, Total	10.7		mg/kg	2.01	0.194	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Potassium, Total	340		mg/kg	201	11.6	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Selenium, Total	0.233	J	mg/kg	1.61	0.207	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.803	0.227	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Sodium, Total	51.4	J	mg/kg	161	2.53	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.61	0.253	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Vanadium, Total	6.98		mg/kg	0.803	0.163	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
Zinc, Total	10.8		mg/kg	4.02	0.235	2	04/16/19 08:00	04/16/19 10:38	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.5	J	mg/kg	0.85	0.85	1		04/16/19 10:38	NA	107,-	



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

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): 01-03 Batch: WG1226719-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Arsenic, Total	0.100	J	mg/kg	0.400	0.083	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Chromium, Total	0.052	J	mg/kg	0.400	0.038	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Iron, Total	ND		mg/kg	2.00	0.361	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Potassium, Total	5.77	J	mg/kg	100	5.76	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Sodium, Total	15.9	J	mg/kg	80.0	1.26	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	04/16/19 08:00	04/16/19 10:04	1,6010D	LC

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): 01-03 Batch: WG1226740-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	04/16/19 08:45	04/16/19 10:21	1,7471B	GD



Project Name: 300 WEST 122ND STREET

Lab Number: L1915326

Project Number: 170500202

Report Date: 04/16/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1915326

Report Date: 04/16/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1226719-2 SRM Lot Number: D101-540								
Aluminum, Total	73		-		50-151	-		
Antimony, Total	157		-		3-196	-		
Arsenic, Total	102		-		83-117	-		
Barium, Total	96		-		83-118	-		
Beryllium, Total	95		-		83-117	-		
Cadmium, Total	93		-		83-117	-		
Calcium, Total	93		-		81-119	-		
Chromium, Total	95		-		81-118	-		
Cobalt, Total	96		-		84-116	-		
Copper, Total	95		-		83-116	-		
Iron, Total	90		-		62-138	-		
Lead, Total	95		-		83-117	-		
Magnesium, Total	84		-		76-124	-		
Manganese, Total	94		-		82-118	-		
Nickel, Total	96		-		82-117	-		
Potassium, Total	88		-		71-130	-		
Selenium, Total	100		-		79-121	-		
Silver, Total	102		-		80-120	-		
Sodium, Total	107		-		72-127	-		
Thallium, Total	96		-		81-119	-		
Vanadium, Total	94		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1915326

Report Date: 04/16/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1226719-2 SRM Lot Number: D101-540					
Zinc, Total	98	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1226740-2 SRM Lot Number: D101-540					
Mercury, Total	110	-	65-135	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1915326

Project Number: 170500202

Report Date: 04/16/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1226719-3 QC Sample: L1915305-01 Client ID: MS Sample												
Aluminum, Total	8930	182	8850	0	Q	-	-		75-125	-		20
Antimony, Total	1.07J	45.5	27.4	60	Q	-	-		75-125	-		20
Arsenic, Total	7.93	10.9	15.2	66	Q	-	-		75-125	-		20
Barium, Total	42.4	182	161	65	Q	-	-		75-125	-		20
Beryllium, Total	0.812	4.55	3.40	57	Q	-	-		75-125	-		20
Cadmium, Total	ND	4.64	2.74	59	Q	-	-		75-125	-		20
Calcium, Total	18400	910	29500	1220	Q	-	-		75-125	-		20
Chromium, Total	10.3	18.2	20.3	55	Q	-	-		75-125	-		20
Cobalt, Total	10.2	45.5	34.4	53	Q	-	-		75-125	-		20
Copper, Total	12.3	22.8	26.9	64	Q	-	-		75-125	-		20
Iron, Total	19500	91	16700	0	Q	-	-		75-125	-		20
Lead, Total	13.4	46.4	40.0	57	Q	-	-		75-125	-		20
Magnesium, Total	4880	910	10500	617	Q	-	-		75-125	-		20
Manganese, Total	455	45.5	423	0	Q	-	-		75-125	-		20
Nickel, Total	11.8	45.5	36.1	53	Q	-	-		75-125	-		20
Potassium, Total	998	910	1400	44	Q	-	-		75-125	-		20
Selenium, Total	0.636J	10.9	7.61	70	Q	-	-		75-125	-		20
Silver, Total	ND	27.3	20.5	75		-	-		75-125	-		20
Sodium, Total	109	910	771	73	Q	-	-		75-125	-		20
Thallium, Total	0.162J	10.9	5.70	52	Q	-	-		75-125	-		20
Vanadium, Total	17.9	45.5	47.7	65	Q	-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1915326

Report Date: 04/16/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1226719-3 QC Sample: L1915305-01 Client ID: MS Sample									
Zinc, Total	62.2	45.5	142	175	Q	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1226740-3 QC Sample: L1915137-01 Client ID: MS Sample									
Mercury, Total	0.352	0.15	0.519	111	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1915326

Report Date: 04/16/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1226719-4 QC Sample: L1915305-01 Client ID: DUP Sample						
Arsenic, Total	7.93	7.49	mg/kg	6		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1226740-4 QC Sample: L1915137-01 Client ID: DUP Sample						
Mercury, Total	0.352	0.489	mg/kg	33	Q	20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-01
Client ID: EP20_SE_11_0415219
Sample Location: NY. NY

Date Collected: 04/15/19 09:15
Date Received: 04/15/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.3		%	0.100	NA	1	-	04/16/19 02:22	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	04/16/19 04:00	04/16/19 11:20	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.848	0.170	1	04/16/19 03:10	04/16/19 09:05	1,7196A	NH



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-02
Client ID: EP20_S_12_0415219
Sample Location: NY. NY

Date Collected: 04/15/19 09:45
Date Received: 04/15/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.8		%	0.100	NA	1	-	04/16/19 02:22	121,2540G	YA
Cyanide, Total	ND		mg/kg	0.98	0.21	1	04/16/19 04:00	04/16/19 11:25	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.844	0.169	1	04/16/19 03:10	04/16/19 09:05	1,7196A	NH



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1915326-03
Client ID: EP20_NE_12_0415219
Sample Location: NY. NY

Date Collected: 04/15/19 15:15
Date Received: 04/15/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.2		%	0.100	NA	1	-	04/16/19 02:22	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	04/16/19 04:00	04/16/19 11:26	1,9010C/9012B	LH
Chromium, Hexavalent	0.202	J	mg/kg	0.849	0.170	1	04/16/19 03:10	04/16/19 09:05	1,7196A	NH



Project Name: 300 WEST 122ND STREET

Lab Number: L1915326

Project Number: 170500202

Report Date: 04/16/19

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): 01-03 Batch: WG1226706-1									
Cyanide, Total	ND	mg/kg	0.83	0.18	1	04/16/19 04:00	04/16/19 11:15	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1226707-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	04/16/19 03:10	04/16/19 09:05	1,7196A	NH

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1226706-2 WG1226706-3								
Cyanide, Total	70	Q	63	Q	80-120	5		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1226707-2								
Chromium, Hexavalent	91		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1226706-4 WG1226706-5 QC Sample: L1915326-01 Client ID: EP20_SE_11_0415219												
Cyanide, Total	ND	10	9.6	91		8.5	87		75-125	12		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1226707-4 QC Sample: L1915326-03 Client ID: EP20_NE_12_0415219												
Chromium, Hexavalent	0.202J	851	935	110		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1915326

Report Date: 04/16/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1226679-1 QC Sample: L1915323-01 Client ID: DUP Sample						
Solids, Total	92.7	93.7	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1226707-6 QC Sample: L1915326-03 Client ID: EP20_NE_12_0415219						
Chromium, Hexavalent	0.202J	ND	mg/kg	NC		20

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Serial_No:04161919:04
Lab Number: L1915326
Report Date: 04/16/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1915326-01A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1915326-01B	Vial water preserved	A	NA		4.7	Y	Absent	16-APR-19 00:40	NYTCL-8260HLW(14)
L1915326-01C	Vial water preserved	A	NA		4.7	Y	Absent	16-APR-19 00:40	NYTCL-8260HLW(14)
L1915326-01D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1915326-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	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)
L1915326-01F	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1915326-01G	Glass 500ml/16oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1915326-02A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1915326-02B	Vial water preserved	A	NA		4.7	Y	Absent	16-APR-19 00:40	NYTCL-8260HLW(14)
L1915326-02C	Vial water preserved	A	NA		4.7	Y	Absent	16-APR-19 00:40	NYTCL-8260HLW(14)
L1915326-02D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1915326-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	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)
L1915326-02F	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1915326-02G	Glass 500ml/16oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1915326-03A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Serial_No:04161919:04
Lab Number: L1915326
Report Date: 04/16/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1915326-03B	Vial water preserved	A	NA		4.7	Y	Absent	16-APR-19 00:40	NYTCL-8260HLW(14)
L1915326-03C	Vial water preserved	A	NA		4.7	Y	Absent	16-APR-19 00:40	NYTCL-8260HLW(14)
L1915326-03D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1915326-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	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)
L1915326-03F	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1915326-03G	Glass 500ml/16oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
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Lab Number: L1915326
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- 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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1915326
Report Date: 04/16/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK 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>4/15/19</u>	ALPHA Job # <u>L1919326</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>300 West 122nd Street</u> Project Location: <u>NY, NY</u> Project # <u>170500202</u>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #	
Client Information Client: <u>LANGAN, DPC</u> Address: <u>21 Perm Plaza, 360 W. 31st St, Fl. 8 NY, NY 10001</u> Phone: <u>212-479-5400</u> Fax: Email: <u>G.WYKA@LANGAN.COM</u>		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other <u>TCL</u> <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:	
Turn-Around Time Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days: <u>1</u>					
These samples have been previously analyzed by Alpha <input type="checkbox"/>		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)	
Other project specific requirements/comments:		Part 375/TCL VOCs SVOCs PCBs Pest./Herbicides DTL Metals + hex/tri Chrom. + total cyanide		Total Bottles	
Please specify Metals or TAL.					
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Matrix	Sampler's Initials	Sample Specific Comments
<u>15326-01</u>	<u>EP20-SE-11</u>	<u>4/15/19</u> <u>0915</u>	<u>SOIL</u>	<u>AS</u>	
<u>02</u>	<u>EP20-S-12</u>	<u>↓</u> <u>0945</u>	<u>↓</u>	<u>↓</u>	
<u>03</u>	<u>EP20-NE-12</u>	<u>↓</u> <u>1515</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			
		Relinquished By:		Received By:	
		Date/Time		Date/Time	
		<u>Robert Stuppach (Langan)</u> <u>4/15/19 16:00</u>		<u>[Signature]</u> <u>4/15/19 16:00</u>	
		<u>[Signature]</u> <u>4/15/19 18:00</u>		<u>[Signature]</u> <u>4/15/19 19:00</u>	
		<u>[Signature]</u> <u>4/15/19 23:00</u>		<u>[Signature]</u> <u>4/15/19 23:00</u>	
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.)					



ANALYTICAL REPORT

Lab Number:	L1913648
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 W. 122ND ST.
Project Number:	170500202
Report Date:	04/11/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1913648-01	EP20_14_040419	SOIL	NY, NY	04/04/19 10:30	04/04/19
L1913648-02	EP21_14.5_040419	SOIL	NY, NY	04/04/19 10:20	04/04/19

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

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.

Pesticides

L1913648-01: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Total Metals


L1913648-01 and -02: 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.

Cyanide, Total

The WG1223991-3 LCSD recovery (77%), associated with L1913648-01 and -02, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: 04/11/19

ORGANICS

VOLATILES

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-01
Client ID: EP20_14_040419
Sample Location: NY, NY

Date Collected: 04/04/19 10:30
Date Received: 04/04/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/09/19 18:44
Analyst: PK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.94	0.14	1
Chloroform	0.15	J	ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.94	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.94	0.12	1
Dibromochloromethane	ND		ug/kg	0.94	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.94	0.25	1
Tetrachloroethene	ND		ug/kg	0.47	0.18	1
Chlorobenzene	ND		ug/kg	0.47	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.65	1
1,2-Dichloroethane	ND		ug/kg	0.94	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.47	0.16	1
Bromodichloromethane	ND		ug/kg	0.47	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.94	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.47	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	0.16	1
Benzene	ND		ug/kg	0.47	0.16	1
Toluene	ND		ug/kg	0.94	0.51	1
Ethylbenzene	ND		ug/kg	0.94	0.13	1
Chloromethane	ND		ug/kg	3.8	0.88	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.94	0.32	1
Chloroethane	ND		ug/kg	1.9	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.94	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-01
 Client ID: EP20_14_040419
 Sample Location: NY, NY

Date Collected: 04/04/19 10:30
 Date Received: 04/04/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.53	1
o-Xylene	ND		ug/kg	0.94	0.27	1
Xylenes, Total	ND		ug/kg	0.94	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.94	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.94	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.22	1
Styrene	ND		ug/kg	0.94	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.4	0.86	1
Acetone	5.1	J	ug/kg	9.4	4.5	1
Carbon disulfide	ND		ug/kg	9.4	4.3	1
2-Butanone	ND		ug/kg	9.4	2.1	1
Vinyl acetate	ND		ug/kg	9.4	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.4	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.4	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.94	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.47	0.12	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.94	0.16	1
sec-Butylbenzene	ND		ug/kg	0.94	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.94	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.94	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.94	0.10	1
Naphthalene	ND		ug/kg	3.8	0.61	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-01
 Client ID: EP20_14_040419
 Sample Location: NY, NY

Date Collected: 04/04/19 10:30
 Date Received: 04/04/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.94	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.31	1
1,4-Dioxane	ND		ug/kg	75	33.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.7	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	103		70-130

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-02
 Client ID: EP21_14.5_040419
 Sample Location: NY, NY

Date Collected: 04/04/19 10:20
 Date Received: 04/04/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/09/19 19:11
 Analyst: PK
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.53	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.2	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-02
 Client ID: EP21_14.5_040419
 Sample Location: NY, NY

Date Collected: 04/04/19 10:20
 Date Received: 04/04/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.97	1
Acetone	ND		ug/kg	11	5.1	1
Carbon disulfide	ND		ug/kg	11	4.8	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	11	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.2	0.69	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-02
 Client ID: EP21_14.5_040419
 Sample Location: NY, NY

Date Collected: 04/04/19 10:20
 Date Received: 04/04/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	85	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	105		70-130

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/09/19 10:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1224758-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/09/19 10:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1224758-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/09/19 10:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1224758-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1224758-3 WG1224758-4								
Methylene chloride	90		86		70-130	5		30
1,1-Dichloroethane	105		101		70-130	4		30
Chloroform	104		102		70-130	2		30
Carbon tetrachloride	101		99		70-130	2		30
1,2-Dichloropropane	98		96		70-130	2		30
Dibromochloromethane	99		99		70-130	0		30
1,1,2-Trichloroethane	102		101		70-130	1		30
Tetrachloroethene	102		100		70-130	2		30
Chlorobenzene	104		103		70-130	1		30
Trichlorofluoromethane	112		111		70-139	1		30
1,2-Dichloroethane	107		106		70-130	1		30
1,1,1-Trichloroethane	102		100		70-130	2		30
Bromodichloromethane	101		100		70-130	1		30
trans-1,3-Dichloropropene	103		102		70-130	1		30
cis-1,3-Dichloropropene	97		95		70-130	2		30
1,1-Dichloropropene	98		97		70-130	1		30
Bromoform	97		96		70-130	1		30
1,1,2,2-Tetrachloroethane	102		100		70-130	2		30
Benzene	97		94		70-130	3		30
Toluene	101		100		70-130	1		30
Ethylbenzene	105		104		70-130	1		30
Chloromethane	100		91		52-130	9		30
Bromomethane	163	Q	159	Q	57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1224758-3 WG1224758-4								
Vinyl chloride	110		106		67-130	4		30
Chloroethane	113		118		50-151	4		30
1,1-Dichloroethene	109		107		65-135	2		30
trans-1,2-Dichloroethene	97		93		70-130	4		30
Trichloroethene	95		95		70-130	0		30
1,2-Dichlorobenzene	101		101		70-130	0		30
1,3-Dichlorobenzene	102		100		70-130	2		30
1,4-Dichlorobenzene	102		98		70-130	4		30
Methyl tert butyl ether	99		96		66-130	3		30
p/m-Xylene	104		105		70-130	1		30
o-Xylene	106		105		70-130	1		30
cis-1,2-Dichloroethene	96		94		70-130	2		30
Dibromomethane	97		97		70-130	0		30
Styrene	104		102		70-130	2		30
Dichlorodifluoromethane	96		95		30-146	1		30
Acetone	93		91		54-140	2		30
Carbon disulfide	109		106		59-130	3		30
2-Butanone	88		89		70-130	1		30
Vinyl acetate	118		115		70-130	3		30
4-Methyl-2-pentanone	98		95		70-130	3		30
1,2,3-Trichloropropane	106		105		68-130	1		30
2-Hexanone	101		100		70-130	1		30
Bromochloromethane	96		92		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1224758-3 WG1224758-4								
2,2-Dichloropropane	107		106		70-130	1		30
1,2-Dibromoethane	99		98		70-130	1		30
1,3-Dichloropropane	101		101		69-130	0		30
1,1,1,2-Tetrachloroethane	102		102		70-130	0		30
Bromobenzene	101		102		70-130	1		30
n-Butylbenzene	111		110		70-130	1		30
sec-Butylbenzene	106		104		70-130	2		30
tert-Butylbenzene	103		102		70-130	1		30
o-Chlorotoluene	110		109		70-130	1		30
p-Chlorotoluene	108		107		70-130	1		30
1,2-Dibromo-3-chloropropane	91		86		68-130	6		30
Hexachlorobutadiene	97		98		67-130	1		30
Isopropylbenzene	106		104		70-130	2		30
p-Isopropyltoluene	104		103		70-130	1		30
Naphthalene	94		93		70-130	1		30
Acrylonitrile	91		92		70-130	1		30
n-Propylbenzene	109		108		70-130	1		30
1,2,3-Trichlorobenzene	96		95		70-130	1		30
1,2,4-Trichlorobenzene	98		97		70-130	1		30
1,3,5-Trimethylbenzene	107		106		70-130	1		30
1,2,4-Trimethylbenzene	106		104		70-130	2		30
1,4-Dioxane	87		82		65-136	6		30
p-Diethylbenzene	101		100		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1913648

Report Date: 04/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1224758-3 WG1224758-4								
p-Ethyltoluene	107		105		70-130	2		30
1,2,4,5-Tetramethylbenzene	103		101		70-130	2		30
Ethyl ether	112		108		67-130	4		30
trans-1,4-Dichloro-2-butene	96		97		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	114		115		70-130
Toluene-d8	106		107		70-130
4-Bromofluorobenzene	107		107		70-130
Dibromofluoromethane	104		103		70-130

SEMIVOLATILES

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-01
 Client ID: EP20_14_040419
 Sample Location: NY, NY

Date Collected: 04/04/19 10:30
 Date Received: 04/04/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/11/19 06:36
 Analyst: RC
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 04/10/19 02:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	100	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	31.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	46.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	3600		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	110	J	ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	72	J	ug/kg	180	60.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-01
 Client ID: EP20_14_040419
 Sample Location: NY, NY

Date Collected: 04/04/19 10:30
 Date Received: 04/04/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	2100		ug/kg	100	20.	1
Benzo(a)pyrene	1600		ug/kg	140	43.	1
Benzo(b)fluoranthene	2200		ug/kg	100	29.	1
Benzo(k)fluoranthene	670		ug/kg	100	28.	1
Chrysene	1800		ug/kg	100	18.	1
Acenaphthylene	710		ug/kg	140	27.	1
Anthracene	740		ug/kg	100	34.	1
Benzo(ghi)perylene	840		ug/kg	140	20.	1
Fluorene	600		ug/kg	180	17.	1
Phenanthrene	3100		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	230		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	940		ug/kg	140	24.	1
Pyrene	2900		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	72.	1
Dibenzofuran	230		ug/kg	180	16.	1
2-Methylnaphthalene	120	J	ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-01
 Client ID: EP20_14_040419
 Sample Location: NY, NY

Date Collected: 04/04/19 10:30
 Date Received: 04/04/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	330		ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	96		10-136
4-Terphenyl-d14	79		18-120

Project Name: 300 W. 122ND ST.**Lab Number:** L1913648**Project Number:** 170500202**Report Date:** 04/11/19**SAMPLE RESULTS**

Lab ID: L1913648-02
 Client ID: EP21_14.5_040419
 Sample Location: NY, NY

Date Collected: 04/04/19 10:20
 Date Received: 04/04/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/11/19 07:01
 Analyst: RC
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 04/10/19 02:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	340		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	31	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-02
 Client ID: EP21_14.5_040419
 Sample Location: NY, NY

Date Collected: 04/04/19 10:20
 Date Received: 04/04/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	220		ug/kg	110	20.	1
Benzo(a)pyrene	180		ug/kg	140	44.	1
Benzo(b)fluoranthene	250		ug/kg	110	30.	1
Benzo(k)fluoranthene	79	J	ug/kg	110	29.	1
Chrysene	190		ug/kg	110	19.	1
Acenaphthylene	58	J	ug/kg	140	28.	1
Anthracene	45	J	ug/kg	110	35.	1
Benzo(ghi)perylene	120	J	ug/kg	140	21.	1
Fluorene	25	J	ug/kg	180	18.	1
Phenanthrene	190		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	28	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	120	J	ug/kg	140	25.	1
Pyrene	310		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	17	J	ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 300 W. 122ND ST.**Lab Number:** L1913648**Project Number:** 170500202**Report Date:** 04/11/19**SAMPLE RESULTS**

Lab ID: L1913648-02
 Client ID: EP21_14.5_040419
 Sample Location: NY, NY

Date Collected: 04/04/19 10:20
 Date Received: 04/04/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	24	J	ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	105		23-120
2-Fluorobiphenyl	101		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	94		18-120

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/11/19 00:07
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/10/19 02:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1224806-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/11/19 00:07
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/10/19 02:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1224806-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 04/11/19 00:07
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/10/19 02:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1224806-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	94		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	92		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1224806-2 WG1224806-3								
Acenaphthene	86		85		31-137	1		50
1,2,4-Trichlorobenzene	87		89		38-107	2		50
Hexachlorobenzene	93		92		40-140	1		50
Bis(2-chloroethyl)ether	81		84		40-140	4		50
2-Chloronaphthalene	90		90		40-140	0		50
1,2-Dichlorobenzene	79		80		40-140	1		50
1,3-Dichlorobenzene	78		80		40-140	3		50
1,4-Dichlorobenzene	78		80		28-104	3		50
3,3'-Dichlorobenzidine	64		64		40-140	0		50
2,4-Dinitrotoluene	94		96		40-132	2		50
2,6-Dinitrotoluene	105		102		40-140	3		50
Fluoranthene	84		85		40-140	1		50
4-Chlorophenyl phenyl ether	94		94		40-140	0		50
4-Bromophenyl phenyl ether	95		94		40-140	1		50
Bis(2-chloroisopropyl)ether	92		94		40-140	2		50
Bis(2-chloroethoxy)methane	89		90		40-117	1		50
Hexachlorobutadiene	90		93		40-140	3		50
Hexachlorocyclopentadiene	72		74		40-140	3		50
Hexachloroethane	84		86		40-140	2		50
Isophorone	91		88		40-140	3		50
Naphthalene	82		83		40-140	1		50
Nitrobenzene	97		97		40-140	0		50
NDPA/DPA	92		91		36-157	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1224806-2 WG1224806-3								
n-Nitrosodi-n-propylamine	92		90		32-121	2		50
Bis(2-ethylhexyl)phthalate	98		99		40-140	1		50
Butyl benzyl phthalate	86		86		40-140	0		50
Di-n-butylphthalate	85		84		40-140	1		50
Di-n-octylphthalate	97		98		40-140	1		50
Diethyl phthalate	93		93		40-140	0		50
Dimethyl phthalate	96		98		40-140	2		50
Benzo(a)anthracene	90		91		40-140	1		50
Benzo(a)pyrene	98		98		40-140	0		50
Benzo(b)fluoranthene	95		96		40-140	1		50
Benzo(k)fluoranthene	93		94		40-140	1		50
Chrysene	92		95		40-140	3		50
Acenaphthylene	92		92		40-140	0		50
Anthracene	80		81		40-140	1		50
Benzo(ghi)perylene	85		87		40-140	2		50
Fluorene	88		88		40-140	0		50
Phenanthrene	77		77		40-140	0		50
Dibenzo(a,h)anthracene	83		85		40-140	2		50
Indeno(1,2,3-cd)pyrene	84		86		40-140	2		50
Pyrene	83		83		35-142	0		50
Biphenyl	91		92		54-104	1		50
4-Chloroaniline	51		51		40-140	0		50
2-Nitroaniline	110		110		47-134	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1224806-2 WG1224806-3								
3-Nitroaniline	69		66		26-129	4		50
4-Nitroaniline	100		101		41-125	1		50
Dibenzofuran	91		90		40-140	1		50
2-Methylnaphthalene	82		83		40-140	1		50
1,2,4,5-Tetrachlorobenzene	100		103		40-117	3		50
Acetophenone	82		83		14-144	1		50
2,4,6-Trichlorophenol	98		100		30-130	2		50
p-Chloro-m-cresol	98		100		26-103	2		50
2-Chlorophenol	87		89		25-102	2		50
2,4-Dichlorophenol	98		96		30-130	2		50
2,4-Dimethylphenol	97		99		30-130	2		50
2-Nitrophenol	118		119		30-130	1		50
4-Nitrophenol	129	Q	125	Q	11-114	3		50
2,4-Dinitrophenol	103		106		4-130	3		50
4,6-Dinitro-o-cresol	133	Q	133	Q	10-130	0		50
Pentachlorophenol	83		82		17-109	1		50
Phenol	86		85		26-90	1		50
2-Methylphenol	86		88		30-130.	2		50
3-Methylphenol/4-Methylphenol	94		94		30-130	0		50
2,4,5-Trichlorophenol	105		106		30-130	1		50
Benzoic Acid	52		55		10-110	6		50
Benzyl Alcohol	94		93		40-140	1		50
Carbazole	80		80		54-128	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1913648

Report Date: 04/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1224806-2 WG1224806-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	89		90		25-120
Phenol-d6	88		87		10-120
Nitrobenzene-d5	99		99		23-120
2-Fluorobiphenyl	92		91		30-120
2,4,6-Tribromophenol	95		97		10-136
4-Terphenyl-d14	86		85		18-120

PCBS

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-01
Client ID: EP20_14_040419
Sample Location: NY, NY

Date Collected: 04/04/19 10:30
Date Received: 04/04/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/11/19 00:32
Analyst: HT
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 04/09/19 23:15
Cleanup Method: EPA 3665A
Cleanup Date: 04/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.1	3.12	1	A
Aroclor 1221	ND		ug/kg	35.1	3.52	1	A
Aroclor 1232	ND		ug/kg	35.1	7.44	1	A
Aroclor 1242	ND		ug/kg	35.1	4.73	1	A
Aroclor 1248	ND		ug/kg	35.1	5.27	1	A
Aroclor 1254	ND		ug/kg	35.1	3.84	1	A
Aroclor 1260	9.73	J	ug/kg	35.1	6.49	1	A
Aroclor 1262	ND		ug/kg	35.1	4.46	1	A
Aroclor 1268	ND		ug/kg	35.1	3.64	1	A
PCBs, Total	9.73	J	ug/kg	35.1	3.12	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-02
Client ID: EP21_14.5_040419
Sample Location: NY, NY

Date Collected: 04/04/19 10:20
Date Received: 04/04/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/11/19 00:44
Analyst: HT
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 04/09/19 23:15
Cleanup Method: EPA 3665A
Cleanup Date: 04/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.9	3.10	1	A
Aroclor 1221	ND		ug/kg	34.9	3.49	1	A
Aroclor 1232	ND		ug/kg	34.9	7.39	1	A
Aroclor 1242	ND		ug/kg	34.9	4.70	1	A
Aroclor 1248	ND		ug/kg	34.9	5.23	1	A
Aroclor 1254	ND		ug/kg	34.9	3.82	1	A
Aroclor 1260	ND		ug/kg	34.9	6.44	1	A
Aroclor 1262	ND		ug/kg	34.9	4.43	1	A
Aroclor 1268	ND		ug/kg	34.9	3.61	1	A
PCBs, Total	ND		ug/kg	34.9	3.10	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 04/10/19 23:54
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 04/09/19 23:15
Cleanup Method: EPA 3665A
Cleanup Date: 04/10/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1224786-1						
Aroclor 1016	ND		ug/kg	31.6	2.81	A
Aroclor 1221	ND		ug/kg	31.6	3.17	A
Aroclor 1232	ND		ug/kg	31.6	6.70	A
Aroclor 1242	ND		ug/kg	31.6	4.26	A
Aroclor 1248	ND		ug/kg	31.6	4.74	A
Aroclor 1254	ND		ug/kg	31.6	3.46	A
Aroclor 1260	ND		ug/kg	31.6	5.84	A
Aroclor 1262	ND		ug/kg	31.6	4.02	A
Aroclor 1268	ND		ug/kg	31.6	3.28	A
PCBs, Total	ND		ug/kg	31.6	2.81	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	85		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1224786-2 WG1224786-3									
Aroclor 1016	85		84		40-140	1		50	A
Aroclor 1260	82		82		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		77		30-150	A
Decachlorobiphenyl	91		90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		80		30-150	B
Decachlorobiphenyl	97		94		30-150	B

PESTICIDES

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-01
 Client ID: EP20_14_040419
 Sample Location: NY, NY

Date Collected: 04/04/19 10:30
 Date Received: 04/04/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/11/19 09:00
 Analyst: DGM
 Percent Solids: 92%
 Methylation Date: 04/09/19 21:32

Extraction Method: EPA 8151A
 Extraction Date: 04/09/19 00:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	176	11.1	1	A
2,4,5-T	ND		ug/kg	176	5.47	1	A
2,4,5-TP (Silvex)	ND		ug/kg	176	4.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	97		30-150	A
DCAA	88		30-150	B

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-01 D

Date Collected: 04/04/19 10:30

Client ID: EP20_14_040419

Date Received: 04/04/19

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8081B

Extraction Date: 04/10/19 00:57

Analytical Date: 04/11/19 18:26

Cleanup Method: EPA 3620B

Analyst: KEG

Cleanup Date: 04/11/19

Percent Solids: 92%

Cleanup Method: EPA 3660B

Cleanup Date: 04/11/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	16.9	3.31	10	A
Lindane	ND		ug/kg	7.04	3.15	10	A
Alpha-BHC	ND		ug/kg	7.04	2.00	10	A
Beta-BHC	ND		ug/kg	16.9	6.41	10	A
Heptachlor	ND		ug/kg	8.45	3.79	10	A
Aldrin	ND		ug/kg	16.9	5.95	10	A
Heptachlor epoxide	ND		ug/kg	31.7	9.50	10	A
Endrin	ND		ug/kg	7.04	2.89	10	A
Endrin aldehyde	ND		ug/kg	21.1	7.39	10	A
Endrin ketone	ND		ug/kg	16.9	4.35	10	A
Dieldrin	ND		ug/kg	10.6	5.28	10	A
4,4'-DDE	ND		ug/kg	16.9	3.91	10	A
4,4'-DDD	ND		ug/kg	16.9	6.03	10	A
4,4'-DDT	ND		ug/kg	31.7	13.6	10	A
Endosulfan I	ND		ug/kg	16.9	3.99	10	A
Endosulfan II	ND		ug/kg	16.9	5.64	10	A
Endosulfan sulfate	ND		ug/kg	7.04	3.35	10	A
Methoxychlor	ND		ug/kg	31.7	9.86	10	A
Toxaphene	ND		ug/kg	317	88.7	10	A
cis-Chlordane	ND		ug/kg	21.1	5.88	10	A
trans-Chlordane	ND		ug/kg	21.1	5.58	10	A
Chlordane	ND		ug/kg	137	56.0	10	A

Project Name: 300 W. 122ND ST.**Lab Number:** L1913648**Project Number:** 170500202**Report Date:** 04/11/19**SAMPLE RESULTS**

Lab ID: L1913648-01 D

Date Collected: 04/04/19 10:30

Client ID: EP20_14_040419

Date Received: 04/04/19

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	71		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	77		30-150	A

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-02
 Client ID: EP21_14.5_040419
 Sample Location: NY, NY

Date Collected: 04/04/19 10:20
 Date Received: 04/04/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/11/19 16:37
 Analyst: KEG
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 04/10/19 00:57
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/11/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/11/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.342	1	A
Lindane	ND		ug/kg	0.728	0.325	1	A
Alpha-BHC	ND		ug/kg	0.728	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.662	1	A
Heptachlor	ND		ug/kg	0.873	0.391	1	A
Aldrin	ND		ug/kg	1.75	0.615	1	A
Heptachlor epoxide	ND		ug/kg	3.27	0.982	1	A
Endrin	ND	IP	ug/kg	0.728	0.298	1	B
Endrin aldehyde	ND		ug/kg	2.18	0.764	1	A
Endrin ketone	ND		ug/kg	1.75	0.450	1	A
Dieldrin	ND		ug/kg	1.09	0.546	1	B
4,4'-DDE	0.532	J	ug/kg	1.75	0.404	1	B
4,4'-DDD	ND		ug/kg	1.75	0.623	1	A
4,4'-DDT	1.73	J	ug/kg	3.27	1.40	1	A
Endosulfan I	ND		ug/kg	1.75	0.412	1	A
Endosulfan II	ND		ug/kg	1.75	0.584	1	A
Endosulfan sulfate	ND		ug/kg	0.728	0.346	1	A
Methoxychlor	ND		ug/kg	3.27	1.02	1	A
Toxaphene	ND		ug/kg	32.7	9.17	1	A
cis-Chlordane	ND		ug/kg	2.18	0.608	1	B
trans-Chlordane	ND		ug/kg	2.18	0.576	1	A
Chlordane	ND		ug/kg	14.2	5.78	1	A

Project Name: 300 W. 122ND ST.**Lab Number:** L1913648**Project Number:** 170500202**Report Date:** 04/11/19**SAMPLE RESULTS**

Lab ID: L1913648-02

Date Collected: 04/04/19 10:20

Client ID: EP21_14.5_040419

Date Received: 04/04/19

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	69		30-150	B
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	73		30-150	A

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-02
 Client ID: EP21_14.5_040419
 Sample Location: NY, NY

Date Collected: 04/04/19 10:20
 Date Received: 04/04/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/11/19 09:18
 Analyst: DGM
 Percent Solids: 91%
 Methylation Date: 04/09/19 21:32

Extraction Method: EPA 8151A
 Extraction Date: 04/09/19 00:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	181	11.4	1	A
2,4,5-T	ND		ug/kg	181	5.60	1	A
2,4,5-TP (Silvex)	ND		ug/kg	181	4.81	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	100		30-150	A
DCAA	89		30-150	B

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 04/11/19 07:31
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 04/09/19 00:05

Methylation Date: 04/09/19 21:32

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1224422-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.08	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.36	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	86		30-150	A
DCAA	77		30-150	B

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/11/19 13:55
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 04/10/19 00:57
Cleanup Method: EPA 3620B
Cleanup Date: 04/11/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/11/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1225489-1						
Delta-BHC	ND		ug/kg	1.51	0.296	A
Lindane	ND		ug/kg	0.629	0.281	A
Alpha-BHC	ND		ug/kg	0.629	0.179	A
Beta-BHC	ND		ug/kg	1.51	0.573	A
Heptachlor	ND		ug/kg	0.755	0.338	A
Aldrin	ND		ug/kg	1.51	0.532	A
Heptachlor epoxide	ND		ug/kg	2.83	0.850	A
Endrin	ND		ug/kg	0.629	0.258	A
Endrin aldehyde	ND		ug/kg	1.89	0.661	A
Endrin ketone	ND		ug/kg	1.51	0.389	A
Dieldrin	ND		ug/kg	0.944	0.472	A
4,4'-DDE	ND		ug/kg	1.51	0.349	A
4,4'-DDD	ND		ug/kg	1.51	0.539	A
4,4'-DDT	ND		ug/kg	2.83	1.21	A
Endosulfan I	ND		ug/kg	1.51	0.357	A
Endosulfan II	ND		ug/kg	1.51	0.505	A
Endosulfan sulfate	ND		ug/kg	0.629	0.300	A
Methoxychlor	ND		ug/kg	2.83	0.881	A
Toxaphene	ND		ug/kg	28.3	7.93	A
cis-Chlordane	ND		ug/kg	1.89	0.526	A
trans-Chlordane	ND		ug/kg	1.89	0.498	A
Chlordane	ND		ug/kg	12.3	5.00	A

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 04/11/19 13:55
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 04/10/19 00:57
Cleanup Method: EPA 3620B
Cleanup Date: 04/11/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/11/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1225489-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	99		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1224422-2 WG1224422-3									
2,4-D	93		84		30-150	10		30	A
2,4,5-T	88		79		30-150	11		30	A
2,4,5-TP (Silvex)	91		82		30-150	10		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	92		81		30-150	A
DCAA	86		78		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1225489-2 WG1225489-3									
Delta-BHC	101		105		30-150	4		30	A
Lindane	93		92		30-150	1		30	A
Alpha-BHC	91		90		30-150	1		30	A
Beta-BHC	87		85		30-150	2		30	A
Heptachlor	51		48		30-150	6		30	A
Aldrin	82		80		30-150	2		30	A
Heptachlor epoxide	89		87		30-150	2		30	A
Endrin	90		89		30-150	1		30	A
Endrin aldehyde	71		74		30-150	4		30	A
Endrin ketone	81		81		30-150	0		30	A
Dieldrin	91		88		30-150	3		30	A
4,4'-DDE	82		80		30-150	2		30	A
4,4'-DDD	87		85		30-150	2		30	A
4,4'-DDT	87		84		30-150	4		30	A
Endosulfan I	81		80		30-150	1		30	A
Endosulfan II	86		87		30-150	1		30	A
Endosulfan sulfate	75		74		30-150	1		30	A
Methoxychlor	80		80		30-150	0		30	A
cis-Chlordane	71		69		30-150	3		30	A
trans-Chlordane	86		83		30-150	4		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1225489-2 WG1225489-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	71		75		30-150	B
Decachlorobiphenyl	85		85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		75		30-150	A
Decachlorobiphenyl	90		94		30-150	A

METALS

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-01
 Client ID: EP20_14_040419
 Sample Location: NY, NY

Date Collected: 04/04/19 10:30
 Date Received: 04/04/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5170		mg/kg	8.21	2.22	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.10	0.312	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Arsenic, Total	2.58		mg/kg	0.821	0.171	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Barium, Total	68.1		mg/kg	0.821	0.143	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.410	0.027	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Cadmium, Total	0.451	J	mg/kg	0.821	0.080	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Calcium, Total	22200		mg/kg	8.21	2.87	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Chromium, Total	11.8		mg/kg	0.821	0.079	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Cobalt, Total	5.01		mg/kg	1.64	0.136	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Copper, Total	22.2		mg/kg	0.821	0.212	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Iron, Total	9870		mg/kg	4.10	0.741	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Lead, Total	138		mg/kg	4.10	0.220	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Magnesium, Total	3050		mg/kg	8.21	1.26	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Manganese, Total	257		mg/kg	0.821	0.130	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Mercury, Total	0.139		mg/kg	0.068	0.014	1	04/06/19 06:20	04/06/19 11:59	EPA 7471B	1,7471B	BV
Nickel, Total	11.6		mg/kg	2.05	0.199	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Potassium, Total	1380		mg/kg	205	11.8	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Selenium, Total	0.353	J	mg/kg	1.64	0.212	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.821	0.232	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Sodium, Total	156	J	mg/kg	164	2.58	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.64	0.258	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Vanadium, Total	16.7		mg/kg	0.821	0.167	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
Zinc, Total	61.5		mg/kg	4.10	0.240	2	04/05/19 23:02	04/11/19 03:14	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	0.87	0.87	1		04/11/19 03:14	NA	107,-	



Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-02
 Client ID: EP21_14.5_040419
 Sample Location: NY, NY

Date Collected: 04/04/19 10:20
 Date Received: 04/04/19
 Field Prep: Not Specified

Sample Depth:
 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	4100		mg/kg	8.63	2.33	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.32	0.328	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Arsenic, Total	1.74		mg/kg	0.863	0.180	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Barium, Total	56.8		mg/kg	0.863	0.150	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Beryllium, Total	0.060	J	mg/kg	0.432	0.029	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Cadmium, Total	0.345	J	mg/kg	0.863	0.085	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Calcium, Total	16700		mg/kg	8.63	3.02	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Chromium, Total	8.78		mg/kg	0.863	0.083	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Cobalt, Total	3.91		mg/kg	1.73	0.143	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Copper, Total	16.2		mg/kg	0.863	0.223	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Iron, Total	8910		mg/kg	4.32	0.780	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Lead, Total	54.9		mg/kg	4.32	0.231	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Magnesium, Total	2140		mg/kg	8.63	1.33	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Manganese, Total	207		mg/kg	0.863	0.137	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Mercury, Total	0.067	J	mg/kg	0.069	0.015	1	04/06/19 06:20	04/06/19 12:01	EPA 7471B	1,7471B	BV
Nickel, Total	8.49		mg/kg	2.16	0.209	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Potassium, Total	1150		mg/kg	216	12.4	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Selenium, Total	0.458	J	mg/kg	1.73	0.223	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.863	0.244	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Sodium, Total	136	J	mg/kg	173	2.72	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.73	0.272	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Vanadium, Total	14.1		mg/kg	0.863	0.175	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
Zinc, Total	37.6		mg/kg	4.32	0.253	2	04/05/19 23:02	04/11/19 03:18	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.8		mg/kg	0.88	0.88	1		04/11/19 03:18	NA	107,-	



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

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): 01-02 Batch: WG1223678-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Iron, Total	1.31	J	mg/kg	2.00	0.361	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Manganese, Total	0.156	J	mg/kg	0.400	0.064	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Potassium, Total	ND		mg/kg	100	5.76	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Sodium, Total	3.59	J	mg/kg	80.0	1.26	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	04/05/19 23:02	04/10/19 20:53	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	04/05/19 23:02	04/10/19 20:53	1,6010D	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): 01-02 Batch: WG1223754-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	04/06/19 06:20	04/06/19 11:47	1,7471B	BV



Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1223678-2 SRM Lot Number: D101-540								
Aluminum, Total	89		-		50-151	-		
Antimony, Total	140		-		3-196	-		
Arsenic, Total	107		-		83-117	-		
Barium, Total	104		-		83-118	-		
Beryllium, Total	104		-		83-117	-		
Cadmium, Total	104		-		83-117	-		
Calcium, Total	104		-		81-119	-		
Chromium, Total	106		-		81-118	-		
Cobalt, Total	104		-		84-116	-		
Copper, Total	106		-		83-116	-		
Iron, Total	102		-		62-138	-		
Lead, Total	103		-		83-117	-		
Magnesium, Total	97		-		76-124	-		
Manganese, Total	104		-		82-118	-		
Nickel, Total	103		-		82-117	-		
Potassium, Total	100		-		71-130	-		
Selenium, Total	106		-		79-121	-		
Silver, Total	106		-		80-120	-		
Sodium, Total	109		-		72-127	-		
Thallium, Total	104		-		81-119	-		
Vanadium, Total	107		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1913648

Report Date: 04/11/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1223678-2 SRM Lot Number: D101-540					
Zinc, Total	104	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1223754-2 SRM Lot Number: D101-540					
Mercury, Total	96	-	65-135	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1223678-3 QC Sample: L1913632-05 Client ID: MS Sample												
Aluminum, Total	9100	171	10100	585	Q	-	-		75-125	-		20
Antimony, Total	ND	42.7	29.5	69	Q	-	-		75-125	-		20
Arsenic, Total	11.0	10.2	20.1	89		-	-		75-125	-		20
Barium, Total	63.5	171	214	88		-	-		75-125	-		20
Beryllium, Total	0.556	4.27	4.42	90		-	-		75-125	-		20
Cadmium, Total	1.29	4.36	5.14	88		-	-		75-125	-		20
Calcium, Total	2210	855	2920	83		-	-		75-125	-		20
Chromium, Total	25.9	17.1	41.0	88		-	-		75-125	-		20
Cobalt, Total	18.4	42.7	54.2	84		-	-		75-125	-		20
Copper, Total	2.48	21.4	20.7	85		-	-		75-125	-		20
Iron, Total	39200	85.5	39300	117		-	-		75-125	-		20
Lead, Total	24.6	43.6	61.3	84		-	-		75-125	-		20
Magnesium, Total	7240	855	8090	99		-	-		75-125	-		20
Manganese, Total	339	42.7	382	101		-	-		75-125	-		20
Nickel, Total	33.8	42.7	69.8	84		-	-		75-125	-		20
Potassium, Total	3030	855	4020	116		-	-		75-125	-		20
Selenium, Total	0.252J	10.2	8.13	79		-	-		75-125	-		20
Silver, Total	ND	25.6	22.0	86		-	-		75-125	-		20
Sodium, Total	239	855	1000	89		-	-		75-125	-		20
Thallium, Total	ND	10.2	6.83	66	Q	-	-		75-125	-		20
Vanadium, Total	29.2	42.7	65.0	84		-	-		75-125	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1223678-3 QC Sample: L1913632-05 Client ID: MS Sample									
Zinc, Total	76.3	42.7	114	88	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1223754-3 QC Sample: L1913747-01 Client ID: MS Sample									
Mercury, Total	0.761	0.183	0.931	93	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1913648

Report Date: 04/11/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1223678-4 QC Sample: L1913632-05 Client ID: DUP Sample						
Aluminum, Total	9100	9280	mg/kg	2		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	11.0	11.2	mg/kg	2		20
Barium, Total	63.5	66.1	mg/kg	4		20
Beryllium, Total	0.556	0.660	mg/kg	17		20
Cadmium, Total	1.29	1.31	mg/kg	2		20
Calcium, Total	2210	2270	mg/kg	3		20
Chromium, Total	25.9	26.7	mg/kg	3		20
Cobalt, Total	18.4	18.4	mg/kg	0		20
Copper, Total	2.48	2.62	mg/kg	5		20
Iron, Total	39200	39400	mg/kg	1		20
Lead, Total	24.6	24.8	mg/kg	1		20
Magnesium, Total	7240	7340	mg/kg	1		20
Manganese, Total	339	350	mg/kg	3		20
Nickel, Total	33.8	34.3	mg/kg	1		20
Potassium, Total	3030	3070	mg/kg	1		20
Selenium, Total	0.252J	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	239	243	mg/kg	2		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1913648

Report Date: 04/11/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1223678-4 QC Sample: L1913632-05 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	29.2	29.7	mg/kg	2	20
Zinc, Total	76.3	76.7	mg/kg	1	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1223754-4 QC Sample: L1913747-01 Client ID: DUP Sample					
Mercury, Total	0.761	1.11	mg/kg	37	Q 20

INORGANICS & MISCELLANEOUS

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-01
Client ID: EP20_14_040419
Sample Location: NY, NY

Date Collected: 04/04/19 10:30
Date Received: 04/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	04/05/19 14:16	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	04/07/19 15:55	04/08/19 11:04	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.867	0.173	1	04/05/19 12:30	04/05/19 17:30	1,7196A	NH



Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1913648

Report Date: 04/11/19

SAMPLE RESULTS

Lab ID: L1913648-02

Client ID: EP21_14.5_040419

Sample Location: NY, NY

Date Collected: 04/04/19 10:20

Date Received: 04/04/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.2		%	0.100	NA	1	-	04/05/19 14:16	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	04/07/19 15:55	04/08/19 11:05	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.877	0.175	1	04/05/19 12:30	04/05/19 17:30	1,7196A	NH



Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

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): 01-02 Batch: WG1223506-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	04/05/19 12:30	04/05/19 17:30	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1223991-1									
Cyanide, Total	ND	mg/kg	1.0	0.21	1	04/07/19 15:55	04/08/19 10:59	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1913648

Report Date: 04/11/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1223506-2								
Chromium, Hexavalent	89		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1223991-2 WG1223991-3								
Cyanide, Total	92		77	Q	80-120	25		35

Matrix Spike Analysis Batch Quality Control

Project Name: 300 W. 122ND ST.

Lab Number: L1913648

Project Number: 170500202

Report Date: 04/11/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1223506-4 QC Sample: L1913648-01 Client ID: EP20_14_040419												
Chromium, Hexavalent	ND	1250	1130	90		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1223991-4 WG1223991-5 QC Sample: L1913801-02 Client ID: MS Sample												
Cyanide, Total	ND	10	8.2	80		8.7	88		75-125	6		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 W. 122ND ST.

Project Number: 170500202

Lab Number: L1913648

Report Date: 04/11/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1223506-6 QC Sample: L1913648-01 Client ID: EP20_14_040419						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1223561-1 QC Sample: L1913655-01 Client ID: DUP Sample						
Solids, Total	93.7	94.0	%	0		20

Project Name: 300 W. 122ND ST.
Project Number: 170500202

Serial_No:04111919:37
Lab Number: L1913648
Report Date: 04/11/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1913648-01A	Vial MeOH preserved	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L1913648-01B	Vial water preserved	A	NA		2.9	Y	Absent	05-APR-19 05:59	NYTCL-8260HLW(14)
L1913648-01C	Vial water preserved	A	NA		2.9	Y	Absent	05-APR-19 05:59	NYTCL-8260HLW(14)
L1913648-01D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L1913648-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	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)
L1913648-01F	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1913648-01G	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1913648-02A	Vial MeOH preserved	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L1913648-02B	Vial water preserved	A	NA		2.9	Y	Absent	05-APR-19 05:59	NYTCL-8260HLW(14)
L1913648-02C	Vial water preserved	A	NA		2.9	Y	Absent	05-APR-19 05:59	NYTCL-8260HLW(14)
L1913648-02D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L1913648-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	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)
L1913648-02F	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1913648-02G	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

- 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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 W. 122ND ST.
Project Number: 170500202

Lab Number: L1913648
Report Date: 04/11/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY 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: 508-822-3286	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 of	Date Rec'd in Lab 4/4/19	ALPHA Job # L1913648																																																																																																																																														
	Project Information Project Name: 300 W. 122nd St. Project Location: NY, NY Project # 170506202 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #																																																																																																																																													
	Client Information Client: LANGAN, DPC Address: Phone: Fax: Email: G.WYKA@LANGAN.COM		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																																																																																													
Turn-Around Time Standard <input checked="" type="checkbox"/> Rush (only if pre approved) <input type="checkbox"/> Due Date: # of Days:		ANALYSIS																																																																																																																																																
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments:		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments		Total Bottling																																																																																																																																														
Please specify Metals or TAL.		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">ALPHA Lab ID (Lab Use Only)</th> <th style="width:20%;">Sample ID</th> <th style="width:10%;">Collection Date</th> <th style="width:10%;">Time</th> <th style="width:10%;">Sample Matrix</th> <th style="width:10%;">Sampler's Initials</th> <th style="width:10%;">Part 375 / TCL VOCs</th> <th style="width:10%;">SVOCs</th> <th style="width:10%;">PCBs</th> <th style="width:10%;">Pest/Herb</th> <th style="width:10%;">Metals + tot. Cyanide + hex/tri. Chromium</th> </tr> </thead> <tbody> <tr> <td>13648 01</td> <td>EP20-14-040419</td> <td>4/4/19</td> <td>1030</td> <td>JOLC</td> <td>AS</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>02</td> <td>EP21-14-5040419</td> <td>↓</td> <td>1020</td> <td>±</td> <td>↓</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials	Part 375 / TCL VOCs	SVOCs	PCBs	Pest/Herb	Metals + tot. Cyanide + hex/tri. Chromium	13648 01	EP20-14-040419	4/4/19	1030	JOLC	AS	X	X	X	X	X	02	EP21-14-5040419	↓	1020	±	↓	X	X	X	X	X																																																																																																													
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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: 01-25 HC (rev. 30-Sept-2013)		Relinquished By: Ashley Shepphale D Santos AAL		Date/Time 4/4/19 1605 4/4/19 17:55 4/4/19 2230		Received By: [Signature] D. Santos AAL [Signature]		Date/Time 4/4/19 16:05 4/4/19 1900 4/4/19 22:30																																																																																																																																										

**Performance Monitoring Groundwater Sample
Laboratory Reports**



ANALYTICAL REPORT

Lab Number:	L1922818
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Julia Leung
Phone:	(212) 479-5400
Project Name:	300 W. 122ND STREET
Project Number:	170500202
Report Date:	06/05/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 W. 122ND STREET
Project Number: 170500202

Lab Number: L1922818
Report Date: 06/05/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1922818-01	PM_GW01_053019	WATER	MANHATTAN, NY	05/30/19 09:23	05/30/19

Project Name: 300 W. 122ND STREET
Project Number: 170500202

Lab Number: L1922818
Report Date: 06/05/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 W. 122ND STREET
Project Number: 170500202

Lab Number: L1922818
Report Date: 06/05/19

Case Narrative (continued)

Report Submission

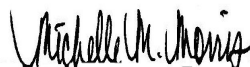
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L1922818-01: The Client ID was specified by the client.

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 06/05/19

ORGANICS

VOLATILES

Project Name: 300 W. 122ND STREET
Project Number: 170500202

Lab Number: L1922818
Report Date: 06/05/19

SAMPLE RESULTS

Lab ID: L1922818-01
Client ID: PM_GW01_053019
Sample Location: MANHATTAN, NY

Date Collected: 05/30/19 09:23
Date Received: 05/30/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/05/19 14:15
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	46		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	0.44	J	ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.26	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	4.6		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	2.8		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 300 W. 122ND STREET
Project Number: 170500202

Lab Number: L1922818
Report Date: 06/05/19

SAMPLE RESULTS

Lab ID: L1922818-01
Client ID: PM_GW01_053019
Sample Location: MANHATTAN, NY

Date Collected: 05/30/19 09:23
Date Received: 05/30/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.1	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 300 W. 122ND STREET
Project Number: 170500202

Lab Number: L1922818
Report Date: 06/05/19

SAMPLE RESULTS

Lab ID: L1922818-01
Client ID: PM_GW01_053019
Sample Location: MANHATTAN, NY

Date Collected: 05/30/19 09:23
Date Received: 05/30/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	108		70-130

Project Name: 300 W. 122ND STREET
Project Number: 170500202

Lab Number: L1922818
Report Date: 06/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/05/19 08:41
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1244781-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 300 W. 122ND STREET
Project Number: 170500202

Lab Number: L1922818
Report Date: 06/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/05/19 08:41
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1244781-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 300 W. 122ND STREET
Project Number: 170500202

Lab Number: L1922818
Report Date: 06/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/05/19 08:41
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1244781-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	108		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND STREET

Project Number: 170500202

Lab Number: L1922818

Report Date: 06/05/19

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: WG1244781-3 WG1244781-4								
Methylene chloride	88		89		70-130	1		20
1,1-Dichloroethane	97		93		70-130	4		20
Chloroform	100		97		70-130	3		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	95		87		70-130	9		20
Dibromochloromethane	96		94		63-130	2		20
1,1,2-Trichloroethane	90		88		70-130	2		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	95		92		75-130	3		20
Trichlorofluoromethane	110		100		62-150	10		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	110		100		67-130	10		20
Bromodichloromethane	96		93		67-130	3		20
trans-1,3-Dichloropropene	97		96		70-130	1		20
cis-1,3-Dichloropropene	88		89		70-130	1		20
1,1-Dichloropropene	94		90		70-130	4		20
Bromoform	97		93		54-136	4		20
1,1,2,2-Tetrachloroethane	86		86		67-130	0		20
Benzene	96		92		70-130	4		20
Toluene	95		91		70-130	4		20
Ethylbenzene	99		96		70-130	3		20
Chloromethane	83		77		64-130	8		20
Bromomethane	82		74		39-139	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND STREET

Project Number: 170500202

Lab Number: L1922818

Report Date: 06/05/19

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: WG1244781-3 WG1244781-4								
Vinyl chloride	110		100		55-140	10		20
Chloroethane	110		94		55-138	16		20
1,1-Dichloroethene	91		90		61-145	1		20
trans-1,2-Dichloroethene	92		92		70-130	0		20
Trichloroethene	98		95		70-130	3		20
1,2-Dichlorobenzene	90		89		70-130	1		20
1,3-Dichlorobenzene	94		93		70-130	1		20
1,4-Dichlorobenzene	91		89		70-130	2		20
Methyl tert butyl ether	93		93		63-130	0		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	95		91		70-130	4		20
Dibromomethane	92		90		70-130	2		20
1,2,3-Trichloropropane	93		89		64-130	4		20
Acrylonitrile	95		91		70-130	4		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	79		76		36-147	4		20
Acetone	100		100		58-148	0		20
Carbon disulfide	88		86		51-130	2		20
2-Butanone	89		84		63-138	6		20
Vinyl acetate	85		74		70-130	14		20
4-Methyl-2-pentanone	87		82		59-130	6		20
2-Hexanone	80		70		57-130	13		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND STREET

Project Number: 170500202

Lab Number: L1922818

Report Date: 06/05/19

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: WG1244781-3 WG1244781-4								
Bromochloromethane	95		92		70-130	3		20
2,2-Dichloropropane	110		100		63-133	10		20
1,2-Dibromoethane	91		92		70-130	1		20
1,3-Dichloropropane	90		90		70-130	0		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	88		89		70-130	1		20
n-Butylbenzene	94		94		53-136	0		20
sec-Butylbenzene	84		78		70-130	7		20
tert-Butylbenzene	92		90		70-130	2		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	96		93		70-130	3		20
1,2-Dibromo-3-chloropropane	87		89		41-144	2		20
Hexachlorobutadiene	110		100		63-130	10		20
Isopropylbenzene	92		89		70-130	3		20
p-Isopropyltoluene	96		94		70-130	2		20
Naphthalene	82		81		70-130	1		20
n-Propylbenzene	93		90		69-130	3		20
1,2,3-Trichlorobenzene	92		90		70-130	2		20
1,2,4-Trichlorobenzene	93		92		70-130	1		20
1,3,5-Trimethylbenzene	97		96		64-130	1		20
1,2,4-Trimethylbenzene	95		93		70-130	2		20
1,4-Dioxane	78		72		56-162	8		20
p-Diethylbenzene	91		90		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 W. 122ND STREET

Project Number: 170500202

Lab Number: L1922818

Report Date: 06/05/19

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: WG1244781-3 WG1244781-4								
p-Ethyltoluene	95		91		70-130	4		20
1,2,4,5-Tetramethylbenzene	91		87		70-130	4		20
Ethyl ether	80		83		59-134	4		20
trans-1,4-Dichloro-2-butene	90		87		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	121		120		70-130
Toluene-d8	102		105		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	105		105		70-130

Project Name: 300 W. 122ND STREET**Lab Number:** L1922818**Project Number:** 170500202**Report Date:** 06/05/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1922818-01A	Vial HCl preserved	A	NA		5.3	Y	Absent		NYTCL-8260(14)
L1922818-01B	Vial HCl preserved	A	NA		5.3	Y	Absent		NYTCL-8260(14)
L1922818-01C	Vial HCl preserved	A	NA		5.3	Y	Absent		NYTCL-8260(14)

Project Name: 300 W. 122ND STREET
Project Number: 170500202

Lab Number: L1922818
Report Date: 06/05/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 W. 122ND STREET
Project Number: 170500202

Lab Number: L1922818
Report Date: 06/05/19

- 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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 W. 122ND STREET
Project Number: 170500202

Lab Number: L1922818
Report Date: 06/05/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	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 5/30/19	ALPHA Job # L1922814																																																																																																														
		Project Information Project Name: 300 W 122ND STREET Project Location: MANHATTAN, NY Project # 170500202 (Use Project name as Project #) <input type="checkbox"/>	Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #																																																																																																															
Client Information Client: LANGAN ENG Address: 360 W 31ST ST NEW YORK NY Phone: 212 479 5400 Fax: Email: jleung@langan.com	Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																																																																	
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:	ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments																																																																																																																
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Other project specific requirements/comments:																																																																																																																			
Please specify Metals or TAL.			<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">ALPHA Lab ID (Lab Use Only)</th> <th style="width:20%;">Sample ID</th> <th colspan="2">Collection</th> <th style="width:10%;">Sample Matrix</th> <th style="width:10%;">Sampler's Initials</th> <th style="width:10%;">Analysis</th> <th style="width:10%;">Filtration</th> <th style="width:10%;">Preservation</th> <th style="width:10%;">Comments</th> </tr> <tr> <th></th> <th></th> <th>Date</th> <th>Time</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>22414.0</td> <td>GW-053019</td> <td>5/30/19</td> <td>923</td> <td>GW</td> <td>PS</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Analysis	Filtration	Preservation	Comments			Date	Time							22414.0	GW-053019	5/30/19	923	GW	PS	X																																																																																			
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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 <input checked="" type="checkbox"/> Preservative 0		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.)																																																																																																											
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ANALYTICAL REPORT

Lab Number:	L1927447
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	07/01/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1927447
Report Date: 07/01/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1927447-01	PM_GW02_062419	WATER	NY, NY 10027	06/24/19 11:55	06/24/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1927447
Report Date: 07/01/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1927447
Report Date: 07/01/19

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.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 07/01/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1927447
Report Date: 07/01/19

SAMPLE RESULTS

Lab ID: L1927447-01
 Client ID: PM_GW02_062419
 Sample Location: NY, NY 10027

Date Collected: 06/24/19 11:55
 Date Received: 06/24/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/28/19 09:07
 Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	2.8		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	14		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1927447
Report Date: 07/01/19

SAMPLE RESULTS

Lab ID: L1927447-01
Client ID: PM_GW02_062419
Sample Location: NY, NY 10027

Date Collected: 06/24/19 11:55
Date Received: 06/24/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.78		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1927447
Report Date: 07/01/19

SAMPLE RESULTS

Lab ID: L1927447-01
Client ID: PM_GW02_062419
Sample Location: NY, NY 10027

Date Collected: 06/24/19 11:55
Date Received: 06/24/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	97		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1927447
Report Date: 07/01/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/28/19 08:32
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1254666-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1927447
Report Date: 07/01/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/28/19 08:32
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1254666-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1927447
Report Date: 07/01/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 06/28/19 08:32
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1254666-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1927447

Project Number: 170500202

Report Date: 07/01/19

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: WG1254666-3 WG1254666-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	96		99		70-130	3		20
Chloroform	96		97		70-130	1		20
Carbon tetrachloride	100		110		63-132	10		20
1,2-Dichloropropane	96		98		70-130	2		20
Dibromochloromethane	100		110		63-130	10		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	91		86		62-150	6		20
1,2-Dichloroethane	93		91		70-130	2		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	96		97		67-130	1		20
trans-1,3-Dichloropropene	100		110		70-130	10		20
cis-1,3-Dichloropropene	110		110		70-130	0		20
1,1-Dichloropropene	96		98		70-130	2		20
Bromoform	100		110		54-136	10		20
1,1,2,2-Tetrachloroethane	110		120		67-130	9		20
Benzene	97		98		70-130	1		20
Toluene	95		110		70-130	15		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	72		59	Q	64-130	20		20
Bromomethane	53		47		39-139	12		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1927447

Project Number: 170500202

Report Date: 07/01/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1254666-3 WG1254666-4								
Vinyl chloride	100		99		55-140	1		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	98		97		61-145	1		20
trans-1,2-Dichloroethene	98		98		70-130	0		20
Trichloroethene	97		98		70-130	1		20
1,2-Dichlorobenzene	110		120		70-130	9		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	97		120		70-130	21	Q	20
Methyl tert butyl ether	110		110		63-130	0		20
p/m-Xylene	110		115		70-130	4		20
o-Xylene	105		115		70-130	9		20
cis-1,2-Dichloroethene	96		100		70-130	4		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	100		110		64-130	10		20
Acrylonitrile	100		100		70-130	0		20
Styrene	105		120		70-130	13		20
Dichlorodifluoromethane	96		91		36-147	5		20
Acetone	97		90		58-148	7		20
Carbon disulfide	95		97		51-130	2		20
2-Butanone	110		100		63-138	10		20
Vinyl acetate	96		97		70-130	1		20
4-Methyl-2-pentanone	98		110		59-130	12		20
2-Hexanone	110		110		57-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1927447

Project Number: 170500202

Report Date: 07/01/19

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: WG1254666-3 WG1254666-4								
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	130		130		63-133	0		20
1,2-Dibromoethane	97		110		70-130	13		20
1,3-Dichloropropane	100		110		70-130	10		20
1,1,1,2-Tetrachloroethane	120		120		64-130	0		20
Bromobenzene	100		110		70-130	10		20
n-Butylbenzene	96		100		53-136	4		20
sec-Butylbenzene	100		120		70-130	18		20
tert-Butylbenzene	89		110		70-130	21	Q	20
o-Chlorotoluene	89		110		70-130	21	Q	20
p-Chlorotoluene	92		100		70-130	8		20
1,2-Dibromo-3-chloropropane	110		120		41-144	9		20
Hexachlorobutadiene	110		130		63-130	17		20
Isopropylbenzene	95		120		70-130	23	Q	20
p-Isopropyltoluene	93		120		70-130	25	Q	20
Naphthalene	100		140	Q	70-130	33	Q	20
n-Propylbenzene	94		110		69-130	16		20
1,2,3-Trichlorobenzene	110		120		70-130	9		20
1,2,4-Trichlorobenzene	100		120		70-130	18		20
1,3,5-Trimethylbenzene	91		120		64-130	27	Q	20
1,2,4-Trimethylbenzene	95		100		70-130	5		20
1,4-Dioxane	108		114		56-162	5		20
p-Diethylbenzene	97		100		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1927447

Project Number: 170500202

Report Date: 07/01/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1254666-3 WG1254666-4								
p-Ethyltoluene	100		120		70-130	18		20
1,2,4,5-Tetramethylbenzene	98		110		70-130	12		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	88		96		70-130	9		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	96		94		70-130
Toluene-d8	94		104		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	97		95		70-130

Project Name: 300 WEST 122ND ST.**Lab Number:** L1927447**Project Number:** 170500202**Report Date:** 07/01/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1927447-01A	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260(14)
L1927447-01B	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260(14)
L1927447-01C	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260(14)

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1927447
Report Date: 07/01/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1927447
Report Date: 07/01/19

- 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

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1927447
Report Date: 07/01/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1	Date Rec'd in Lab 6/24/19	ALPHA Job # 66927447			
		of 1					
Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information Project Name: 300 West 122nd St. Project Location: NY, NY 10027 Project # 170500202 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #		
Client Information Client: LANGAN, DPC Address: 360 W. 31st St., 8th Floor Phone: 212-479-5400 Fax: Email: G.WYKA@LANGAN.COM	Project Manager: Greg Wyka ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input checked="" type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:		
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments:			ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments		
Please specify Metals or TAL.			TCC VOCs			Total Bottles	
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection	Sample Matrix	Sampler's Initials			
		Date Time					
27447-01	PM-GW02-062419	6/24/19 1155	AQ	PS	<input checked="" type="checkbox"/>	(3) VOA	
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 V Preservative B	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: Ashley Slappach Date/Time: 6/24/19 14:00		Received By: Ashley Slappach Date/Time: 6/24/19 16:45		Relinquished By: PS Date/Time: 6/24/19 16:45		Received By: PS Date/Time: 6/24/19 20:45	



ANALYTICAL REPORT

Lab Number:	L1929436
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	07/12/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929436
Report Date: 07/12/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1929436-01	PM_GW03_070819	WATER	NY, NY 10027	07/08/19 11:00	07/08/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929436
Report Date: 07/12/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929436
Report Date: 07/12/19

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.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 07/12/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929436
Report Date: 07/12/19

SAMPLE RESULTS

Lab ID: L1929436-01
 Client ID: PM_GW03_070819
 Sample Location: NY, NY 10027

Date Collected: 07/08/19 11:00
 Date Received: 07/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/11/19 18:04
 Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	1.3	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	7.0		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	1.6	J	ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929436
Report Date: 07/12/19

SAMPLE RESULTS

Lab ID: L1929436-01
Client ID: PM_GW03_070819
Sample Location: NY, NY 10027

Date Collected: 07/08/19 11:00
Date Received: 07/08/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.66		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	5.0		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	3.4	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	2.4	J	ug/l	2.5	0.70	1
sec-Butylbenzene	4.7		ug/l	2.5	0.70	1
tert-Butylbenzene	0.83	J	ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	0.87	J	ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929436
Report Date: 07/12/19

SAMPLE RESULTS

Lab ID: L1929436-01
 Client ID: PM_GW03_070819
 Sample Location: NY, NY 10027

Date Collected: 07/08/19 11:00
 Date Received: 07/08/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	3.9		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	3.5		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	5.6		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	88		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929436
Report Date: 07/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/11/19 08:43
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1258652-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929436
Report Date: 07/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/11/19 08:43
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1258652-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929436
Report Date: 07/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/11/19 08:43
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1258652-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1929436

Project Number: 170500202

Report Date: 07/12/19

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: WG1258652-3 WG1258652-4								
Methylene chloride	90		90		70-130	0		20
1,1-Dichloroethane	87		86		70-130	1		20
Chloroform	84		85		70-130	1		20
Carbon tetrachloride	90		91		63-132	1		20
1,2-Dichloropropane	90		89		70-130	1		20
Dibromochloromethane	98		94		63-130	4		20
1,1,2-Trichloroethane	100		99		70-130	1		20
Tetrachloroethene	98		97		70-130	1		20
Chlorobenzene	98		97		75-130	1		20
Trichlorofluoromethane	71		71		62-150	0		20
1,2-Dichloroethane	82		81		70-130	1		20
1,1,1-Trichloroethane	85		86		67-130	1		20
Bromodichloromethane	85		85		67-130	0		20
trans-1,3-Dichloropropene	99		95		70-130	4		20
cis-1,3-Dichloropropene	96		94		70-130	2		20
1,1-Dichloropropene	86		85		70-130	1		20
Bromoform	92		90		54-136	2		20
1,1,2,2-Tetrachloroethane	97		97		67-130	0		20
Benzene	87		88		70-130	1		20
Toluene	97		95		70-130	2		20
Ethylbenzene	97		96		70-130	1		20
Chloromethane	66		59	Q	64-130	11		20
Bromomethane	42		38	Q	39-139	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1929436

Project Number: 170500202

Report Date: 07/12/19

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: WG1258652-3 WG1258652-4								
Vinyl chloride	78		77		55-140	1		20
Chloroethane	88		85		55-138	3		20
1,1-Dichloroethene	83		82		61-145	1		20
trans-1,2-Dichloroethene	86		87		70-130	1		20
Trichloroethene	88		86		70-130	2		20
1,2-Dichlorobenzene	98		98		70-130	0		20
1,3-Dichlorobenzene	96		97		70-130	1		20
1,4-Dichlorobenzene	96		97		70-130	1		20
Methyl tert butyl ether	91		88		63-130	3		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	91		90		70-130	1		20
Dibromomethane	90		86		70-130	5		20
1,2,3-Trichloropropane	95		93		64-130	2		20
Acrylonitrile	90		87		70-130	3		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	62		62		36-147	0		20
Acetone	80		76		58-148	5		20
Carbon disulfide	81		82		51-130	1		20
2-Butanone	96		92		63-138	4		20
Vinyl acetate	90		91		70-130	1		20
4-Methyl-2-pentanone	96		92		59-130	4		20
2-Hexanone	96		93		57-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1929436

Project Number: 170500202

Report Date: 07/12/19

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: WG1258652-3 WG1258652-4								
Bromochloromethane	97		95		70-130	2		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	98		96		70-130	2		20
1,3-Dichloropropane	98		95		70-130	3		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	96		94		70-130	2		20
n-Butylbenzene	94		95		53-136	1		20
sec-Butylbenzene	94		96		70-130	2		20
tert-Butylbenzene	94		94		70-130	0		20
o-Chlorotoluene	92		91		70-130	1		20
p-Chlorotoluene	92		93		70-130	1		20
1,2-Dibromo-3-chloropropane	96		93		41-144	3		20
Hexachlorobutadiene	98		100		63-130	2		20
Isopropylbenzene	95		96		70-130	1		20
p-Isopropyltoluene	97		98		70-130	1		20
Naphthalene	97		100		70-130	3		20
n-Propylbenzene	95		96		69-130	1		20
1,2,3-Trichlorobenzene	94		100		70-130	6		20
1,2,4-Trichlorobenzene	99		100		70-130	1		20
1,3,5-Trimethylbenzene	93		94		64-130	1		20
1,2,4-Trimethylbenzene	94		95		70-130	1		20
1,4-Dioxane	100		100		56-162	0		20
p-Diethylbenzene	97		99		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1929436

Report Date: 07/12/19

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: WG1258652-3 WG1258652-4								
p-Ethyltoluene	96		97		70-130	1		20
1,2,4,5-Tetramethylbenzene	97		98		70-130	1		20
Ethyl ether	92		89		59-134	3		20
trans-1,4-Dichloro-2-butene	84		78		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		91		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	93		92		70-130
Dibromofluoromethane	94		95		70-130

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Serial_No:07121917:55

Lab Number: L1929436

Report Date: 07/12/19

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**

A Absent

Container Information

Container ID **Container Type**

Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
A	NA		2.8	Y	Absent		NYTCL-8260(14)
A	NA		2.8	Y	Absent		NYTCL-8260(14)
A	NA		2.8	Y	Absent		NYTCL-8260(14)

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929436
Report Date: 07/12/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929436
Report Date: 07/12/19

- 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

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1929436
Report Date: 07/12/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK 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>7/8/19</u>	ALPHA Job # <u>L1929436</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>300 West 122nd St.</u> Project Location: <u>NY, NY 10027</u> Project # <u>170500202</u> (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #						
Client Information Client: <u>LANGAN, DPC</u> Address: <u>360 W. 31st St, 8th Floor</u> <u>NY, NY 10001</u> Phone: <u>212-479-5400</u> Fax: Email: <u>G.WYIKA@LANGAN.COM</u>		Regulatory Requirement <input checked="" type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:						
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:										
These samples have been previously analyzed by Alpha <input type="checkbox"/>		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)						
Other project specific requirements/comments:		TCL VOCs		Total Bottles						
Please specify Metals or TAL.										
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials					
		Date	Time							
<u>29436-01</u>	<u>PM_GW03_070819</u>	<u>7/8/19</u>	<u>1100</u>	<u>AG</u>	<u>AS</u>	<u>X</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:		Date/Time		Received By:		Date/Time		
		<u>[Signature]</u>		<u>7/8/19 1130</u> <u>7/8/19 1220</u> <u>7/3/19 2030</u>		<u>[Signature]</u> <u>P.S. AA</u> <u>[Signature]</u>		<u>7/8/19 1130</u> <u>7/3/19 16:45</u> <u>7/8/19 2030</u>		



ANALYTICAL REPORT

Lab Number:	L1932327
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	07/26/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1932327
Report Date: 07/26/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1932327-01	PM_GW04_072219	WATER	NY, NY 10027	07/22/19 14:40	07/22/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1932327
Report Date: 07/26/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1932327
Report Date: 07/26/19

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.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 07/26/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1932327
Report Date: 07/26/19

SAMPLE RESULTS

Lab ID: L1932327-01
 Client ID: PM_GW04_072219
 Sample Location: NY, NY 10027

Date Collected: 07/22/19 14:40
 Date Received: 07/22/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/26/19 10:41
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	2.0	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	5.4		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1932327
Report Date: 07/26/19

SAMPLE RESULTS

Lab ID: L1932327-01
Client ID: PM_GW04_072219
Sample Location: NY, NY 10027

Date Collected: 07/22/19 14:40
Date Received: 07/22/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.33	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1932327
Report Date: 07/26/19

SAMPLE RESULTS

Lab ID: L1932327-01
 Client ID: PM_GW04_072219
 Sample Location: NY, NY 10027

Date Collected: 07/22/19 14:40
 Date Received: 07/22/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	117		70-130
4-Bromofluorobenzene	125		70-130
Dibromofluoromethane	102		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1932327
Report Date: 07/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/26/19 09:25
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1265036-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1932327
Report Date: 07/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/26/19 09:25
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1265036-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1932327
Report Date: 07/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 07/26/19 09:25
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1265036-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	122		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1932327

Project Number: 170500202

Report Date: 07/26/19

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: WG1265036-3 WG1265036-4								
Methylene chloride	89		88		70-130	1		20
1,1-Dichloroethane	96		92		70-130	4		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	92		90		70-130	2		20
Dibromochloromethane	92		93		63-130	1		20
1,1,2-Trichloroethane	87		89		70-130	2		20
Tetrachloroethene	93		100		70-130	7		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	92		83		62-150	10		20
1,2-Dichloroethane	94		92		70-130	2		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	89		86		67-130	3		20
trans-1,3-Dichloropropene	82		93		70-130	13		20
cis-1,3-Dichloropropene	86		83		70-130	4		20
1,1-Dichloropropene	110		100		70-130	10		20
Bromoform	88		88		54-136	0		20
1,1,2,2-Tetrachloroethane	81		79		67-130	3		20
Benzene	110		100		70-130	10		20
Toluene	92		100		70-130	8		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	95		93		64-130	2		20
Bromomethane	66		66		39-139	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1932327

Project Number: 170500202

Report Date: 07/26/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1265036-3 WG1265036-4								
Vinyl chloride	100		92		55-140	8		20
Chloroethane	94		82		55-138	14		20
1,1-Dichloroethene	95		91		61-145	4		20
trans-1,2-Dichloroethene	95		90		70-130	5		20
Trichloroethene	100		110		70-130	10		20
1,2-Dichlorobenzene	89		90		70-130	1		20
1,3-Dichlorobenzene	98		98		70-130	0		20
1,4-Dichlorobenzene	96		94		70-130	2		20
Methyl tert butyl ether	80		78		63-130	3		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	95		105		70-130	10		20
cis-1,2-Dichloroethene	94		110		70-130	16		20
Dibromomethane	81		86		70-130	6		20
1,2,3-Trichloropropane	76		79		64-130	4		20
Acrylonitrile	79		77		70-130	3		20
Styrene	90		100		70-130	11		20
Dichlorodifluoromethane	110		100		36-147	10		20
Acetone	88		87		58-148	1		20
Carbon disulfide	85		81		51-130	5		20
2-Butanone	93		88		63-138	6		20
Vinyl acetate	83		81		70-130	2		20
4-Methyl-2-pentanone	68		81		59-130	17		20
2-Hexanone	74		79		57-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1932327

Project Number: 170500202

Report Date: 07/26/19

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: WG1265036-3 WG1265036-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	120		120		63-133	0		20
1,2-Dibromoethane	87		90		70-130	3		20
1,3-Dichloropropane	91		91		70-130	0		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	98		99		70-130	1		20
n-Butylbenzene	94		92		53-136	2		20
sec-Butylbenzene	99		95		70-130	4		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	100		98		70-130	2		20
1,2-Dibromo-3-chloropropane	73		67		41-144	9		20
Hexachlorobutadiene	83		73		63-130	13		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	98		97		70-130	1		20
Naphthalene	49	Q	49	Q	70-130	0		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	54	Q	55	Q	70-130	2		20
1,2,4-Trichlorobenzene	71		63	Q	70-130	12		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	98		96		70-130	2		20
1,4-Dioxane	74		88		56-162	17		20
p-Diethylbenzene	89		89		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1932327

Report Date: 07/26/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1265036-3 WG1265036-4								
p-Ethyltoluene	94		93		70-130	1		20
1,2,4,5-Tetramethylbenzene	82		82		70-130	0		20
Ethyl ether	82		77		59-134	6		20
trans-1,4-Dichloro-2-butene	64	Q	68	Q	70-130	6		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	93		95		70-130
Toluene-d8	85		102		70-130
4-Bromofluorobenzene	102		106		70-130
Dibromofluoromethane	98		98		70-130

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932327-01A	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260(14)
L1932327-01B	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260(14)
L1932327-01C	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260(14)

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1932327
Report Date: 07/26/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1932327
Report Date: 07/26/19

- 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

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1932327
Report Date: 07/26/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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.



Certification Information

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

Westborough Facility

EPA 624/624.1: 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 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 <p>NEW YORK CHAIN OF CUSTODY</p> <p>Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193</p> <p>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288</p>	<p><u>Service Centers</u> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105</p>	Page <u>1</u>	Date Rec'd in Lab <u>7/23/19</u>	ALPHA Job # <u>L1932327</u>				
		of <u>1</u>						
<p>Project Information</p> <p>Project Name: <u>300 West 122nd St.</u></p> <p>Project Location: <u>NY, NY 10027</u></p> <p>Project # <u>170506202</u></p> <p>(Use Project name as Project #) <input type="checkbox"/></p>		<p>Deliverables</p> <p><input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B</p> <p><input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File)</p> <p><input type="checkbox"/> Other</p>		<p>Billing Information</p> <p><input checked="" type="checkbox"/> Same as Client Info</p> <p>PO #</p>				
<p>Client Information</p> <p>Client: <u>LANGAN, OPC</u></p> <p>Address: <u>360 W. 31st St., Floor 8</u> <u>NY, NY 10001</u></p> <p>Phone: <u>212-479-5400</u></p> <p>Fax:</p> <p>Email: <u>G.WYKA@LANGAN.COM</u></p>		<p>Regulatory Requirement</p> <p><input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375</p> <p><input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51</p> <p><input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other</p> <p><input type="checkbox"/> NY Unrestricted Use</p> <p><input type="checkbox"/> NYC-Sewer Discharge</p>		<p>Disposal Site Information</p> <p>Please identify below location of applicable disposal facilities.</p> <p>Disposal Facility:</p> <p><input type="checkbox"/> NJ <input type="checkbox"/> NY</p> <p><input type="checkbox"/> Other:</p>				
<p>Turn-Around Time</p> <p>Standard <input type="checkbox"/> Due Date:</p> <p>Rush (only if pre approved) <input type="checkbox"/> # of Days:</p>		<p>ANALYSIS</p>						
<p>These samples have been previously analyzed by Alpha <input type="checkbox"/></p> <p>Other project specific requirements/comments:</p> <p>Please specify Metals or TAL.</p>		<p style="writing-mode: vertical-rl; transform: rotate(180deg);">TCL VOCs</p>		<p>Sample Filtration</p> <p><input type="checkbox"/> Done</p> <p><input type="checkbox"/> Lab to do</p> <p>Preservation</p> <p><input type="checkbox"/> Lab to do</p> <p>(Please Specify below)</p>				
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS	Sample Specific Comments	Total Bottles
<u>30327-01</u>	<u>PM-GW04-072219</u>	<u>7/22/19</u>	<u>1440</u>	<u>AG</u>	<u>AS</u>	<u>X</u>	<u>(3) VOA.</u>	
<p>Preservative Code:</p> <p>A = None B = HCl C = HNO₃ D = H₂SO₄ E = NaOH F = MeOH G = NaHSO₄ H = Na₂S₂O₃ K/E = Zn Ac/NaOH Q = Other</p>	<p>Container Code</p> <p>P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle</p>	<p>Westboro: Certification No: MA935 Mansfield: Certification No: MA015</p>		<p>Container Type <u>A</u></p>	<p>Preservative</p>	<p>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.)</p>		
		Relinquished By:	Date/Time	Received By:	Date/Time			
		<u>Audley Steppabat</u>	<u>7/22/19 1615</u>	<u>ADA AAL</u>	<u>7-22-19 1615</u>			
		<u>ADA AAL</u>	<u>7-22-19 1750</u>	<u>ADA AAL</u>	<u>7/22/19 1730</u>			
		<u>ADA AAL</u>	<u>7/23/19 0345</u>	<u>ADA AAL</u>	<u>7/23/19 0345</u>			



ANALYTICAL REPORT

Lab Number:	L1934819
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	08/12/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1934819
Report Date: 08/12/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1934819-01	PM_GW05_080519	WATER	NY, NY 10027	08/05/19 14:14	08/05/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1934819
Report Date: 08/12/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1934819
Report Date: 08/12/19

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.

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: 08/12/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1934819
Report Date: 08/12/19

SAMPLE RESULTS

Lab ID: L1934819-01
 Client ID: PM_GW05_080519
 Sample Location: NY, NY 10027

Date Collected: 08/05/19 14:14
 Date Received: 08/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 08/09/19 01:47
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	15		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1934819
Report Date: 08/12/19

SAMPLE RESULTS

Lab ID: L1934819-01
 Client ID: PM_GW05_080519
 Sample Location: NY, NY 10027

Date Collected: 08/05/19 14:14
 Date Received: 08/05/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.99		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1934819
Report Date: 08/12/19

SAMPLE RESULTS

Lab ID: L1934819-01
 Client ID: PM_GW05_080519
 Sample Location: NY, NY 10027

Date Collected: 08/05/19 14:14
 Date Received: 08/05/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	108		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1934819
Report Date: 08/12/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/08/19 21:01
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1270660-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1934819
Report Date: 08/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/08/19 21:01
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1270660-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1934819
Report Date: 08/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/08/19 21:01
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1270660-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1934819

Project Number: 170500202

Report Date: 08/12/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1270660-3 WG1270660-4								
Methylene chloride	99		90		70-130	10		20
1,1-Dichloroethane	96		95		70-130	1		20
Chloroform	100		95		70-130	5		20
Carbon tetrachloride	120		110		63-132	9		20
1,2-Dichloropropane	96		90		70-130	6		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	98		98		70-130	0		20
Tetrachloroethene	100		93		70-130	7		20
Chlorobenzene	100		98		75-130	2		20
Trichlorofluoromethane	110		100		62-150	10		20
1,2-Dichloroethane	110		100		70-130	10		20
1,1,1-Trichloroethane	100		99		67-130	1		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	100		96		70-130	4		20
cis-1,3-Dichloropropene	100		99		70-130	1		20
1,1-Dichloropropene	98		94		70-130	4		20
Bromoform	100		100		54-136	0		20
1,1,2,2-Tetrachloroethane	92		98		67-130	6		20
Benzene	100		96		70-130	4		20
Toluene	99		93		70-130	6		20
Ethylbenzene	100		98		70-130	2		20
Chloromethane	91		85		64-130	7		20
Bromomethane	80		76		39-139	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1934819

Project Number: 170500202

Report Date: 08/12/19

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: WG1270660-3 WG1270660-4								
Vinyl chloride	92		87		55-140	6		20
Chloroethane	110		92		55-138	18		20
1,1-Dichloroethene	94		94		61-145	0		20
trans-1,2-Dichloroethene	96		92		70-130	4		20
Trichloroethene	100		93		70-130	7		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		97		70-130	3		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	98		94		63-130	4		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	105		95		70-130	10		20
cis-1,2-Dichloroethene	93		93		70-130	0		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	95		99		64-130	4		20
Acrylonitrile	92		88		70-130	4		20
Styrene	105		100		70-130	5		20
Dichlorodifluoromethane	100		96		36-147	4		20
Acetone	89		86		58-148	3		20
Carbon disulfide	93		86		51-130	8		20
2-Butanone	110		120		63-138	9		20
Vinyl acetate	83		84		70-130	1		20
4-Methyl-2-pentanone	84		90		59-130	7		20
2-Hexanone	86		90		57-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1934819

Project Number: 170500202

Report Date: 08/12/19

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: WG1270660-3 WG1270660-4								
Bromochloromethane	97		100		70-130	3		20
2,2-Dichloropropane	120		100		63-133	18		20
1,2-Dibromoethane	98		100		70-130	2		20
1,3-Dichloropropane	97		94		70-130	3		20
1,1,1,2-Tetrachloroethane	110		100		64-130	10		20
Bromobenzene	96		98		70-130	2		20
n-Butylbenzene	110		100		53-136	10		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	90		86		70-130	5		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	100		99		70-130	1		20
1,2-Dibromo-3-chloropropane	86		98		41-144	13		20
Hexachlorobutadiene	120		110		63-130	9		20
Isopropylbenzene	100		98		70-130	2		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	91		95		70-130	4		20
n-Propylbenzene	100		99		69-130	1		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	110		100		64-130	10		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
1,4-Dioxane	96		106		56-162	10		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1934819

Report Date: 08/12/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1270660-3 WG1270660-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	92		90		70-130	2		20
Ethyl ether	89		87		59-134	2		20
trans-1,4-Dichloro-2-butene	87		110		70-130	23	Q	20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	107		124		70-130
Toluene-d8	99		97		70-130
4-Bromofluorobenzene	98		102		70-130
Dibromofluoromethane	98		103		70-130

Project Name: 300 WEST 122ND ST.

Lab Number: L1934819

Project Number: 170500202

Report Date: 08/12/19

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1934819-01A	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260(14)
L1934819-01B	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260(14)
L1934819-01C	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1934819
Report Date: 08/12/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1934819
Report Date: 08/12/19

- 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

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1934819
Report Date: 08/12/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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.



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

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, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, 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	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	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 8/6/19	ALPHA Job # L1934819
		Project Information Project Name: 300 West 122nd St. Project Location: NY, NY 10027 Project # 170500202 (Use Project name as Project #) <input type="checkbox"/>			Deliverables <input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other	
Client Information Client: Langan, OPC Address: Phone: Fax: Email: G.WYKA@LANGAN.COM		Project Manager: Greg Wyka ALPHAQuote #: Turn-Around Time: Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJ IGW SPLP Leachate Criteria <input type="checkbox"/> Other		Site Information Is this site impacted by Petroleum? Yes <input type="checkbox"/> Petroleum Product:
These samples have been previously analyzed by Alpha <input type="checkbox"/>			ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)	Total Bottles
For EPH, selection is REQUIRED: <input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2	For VOC, selection is REQUIRED: <input type="checkbox"/> 1,4-Dioxane <input type="checkbox"/> 8011	Other project specific requirements/comments: Please specify Metals or TAL.		(Vertical text: Part 375 VOC)		
ALPHA Lab ID (Lab Use Only) 34819 -01	Sample ID PM-GW05-080519	Collection Date: 8/5/19 Time: 1414	Sample Matrix AQ			Sampler's Initials AS
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: [Signature]	Date/Time 8/5/19 1430	Received By: [Signature] AA2	Date/Time 8-5-19 1430	
		[Signature]	8-5-19 1708	[Signature]	8/5/19 1930	
		[Signature]	8/6/19 0015	[Signature]	8/6/19 0045	



ANALYTICAL REPORT

Lab Number:	L1937322
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	08/26/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1937322
Report Date: 08/26/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1937322-01	PM_GW06_081919	WATER	NY, NY 10027	08/19/19 12:40	08/19/19
L1937322-02	PM_DUP01_081919	WATER	NY, NY 10027	08/19/19 00:00	08/19/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1937322
Report Date: 08/26/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1937322
Report Date: 08/26/19

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.

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: 08/26/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1937322
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937322-01
 Client ID: PM_GW06_081919
 Sample Location: NY, NY 10027

Date Collected: 08/19/19 12:40
 Date Received: 08/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 08/23/19 02:34
 Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	1.0	J	ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	6.0		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	1.8		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	0.91	J	ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1937322

Project Number: 170500202

Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937322-01
 Client ID: PM_GW06_081919
 Sample Location: NY, NY 10027

Date Collected: 08/19/19 12:40
 Date Received: 08/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	6.6		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	0.90	J	ug/l	2.5	0.70	1
sec-Butylbenzene	3.6		ug/l	2.5	0.70	1
tert-Butylbenzene	2.2	J	ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	1.5	J	ug/l	2.5	0.70	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1937322
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937322-01
Client ID: PM_GW06_081919
Sample Location: NY, NY 10027

Date Collected: 08/19/19 12:40
Date Received: 08/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	5.5		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	13		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	94		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1937322
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937322-02
 Client ID: PM_DUP01_081919
 Sample Location: NY, NY 10027

Date Collected: 08/19/19 00:00
 Date Received: 08/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 08/23/19 02:59
 Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	1.0	J	ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	6.4		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	1.9		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	1.0	J	ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1937322
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937322-02
 Client ID: PM_DUP01_081919
 Sample Location: NY, NY 10027

Date Collected: 08/19/19 00:00
 Date Received: 08/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	7.4		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	0.94	J	ug/l	2.5	0.70	1
sec-Butylbenzene	3.8		ug/l	2.5	0.70	1
tert-Butylbenzene	2.3	J	ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	1.1	J	ug/l	2.5	0.70	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1937322
Report Date: 08/26/19

SAMPLE RESULTS

Lab ID: L1937322-02
 Client ID: PM_DUP01_081919
 Sample Location: NY, NY 10027

Date Collected: 08/19/19 00:00
 Date Received: 08/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	5.8		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	14		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	96		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1937322
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/19 20:39
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1275704-10					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1937322
Report Date: 08/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/19 20:39
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1275704-10					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1937322
Report Date: 08/26/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 08/22/19 20:39
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1275704-10					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1937322

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1275704-8 WG1275704-9								
Methylene chloride	92		91		70-130	1		20
1,1-Dichloroethane	87		90		70-130	3		20
Chloroform	84		87		70-130	4		20
Carbon tetrachloride	82		83		63-132	1		20
1,2-Dichloropropane	91		94		70-130	3		20
Dibromochloromethane	92		93		63-130	1		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	89		89		70-130	0		20
Chlorobenzene	92		92		75-130	0		20
Trichlorofluoromethane	80		82		62-150	2		20
1,2-Dichloroethane	89		88		70-130	1		20
1,1,1-Trichloroethane	81		83		67-130	2		20
Bromodichloromethane	85		88		67-130	3		20
trans-1,3-Dichloropropene	92		93		70-130	1		20
cis-1,3-Dichloropropene	86		89		70-130	3		20
1,1-Dichloropropene	84		86		70-130	2		20
Bromoform	98		97		54-136	1		20
1,1,2,2-Tetrachloroethane	100		110		67-130	10		20
Benzene	91		92		70-130	1		20
Toluene	89		92		70-130	3		20
Ethylbenzene	88		90		70-130	2		20
Chloromethane	86		86		64-130	0		20
Bromomethane	44		48		39-139	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1937322

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1275704-8 WG1275704-9								
Vinyl chloride	88		88		55-140	0		20
Chloroethane	87		86		55-138	1		20
1,1-Dichloroethene	84		84		61-145	0		20
trans-1,2-Dichloroethene	86		87		70-130	1		20
Trichloroethene	88		88		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	96		94		70-130	2		20
1,4-Dichlorobenzene	96		97		70-130	1		20
Methyl tert butyl ether	89		90		63-130	1		20
p/m-Xylene	85		90		70-130	6		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	89		88		70-130	1		20
Dibromomethane	91		93		70-130	2		20
1,2,3-Trichloropropane	100		97		64-130	3		20
Acrylonitrile	100		110		70-130	10		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	76		77		36-147	1		20
Acetone	120		120		58-148	0		20
Carbon disulfide	85		86		51-130	1		20
2-Butanone	110		110		63-138	0		20
Vinyl acetate	94		96		70-130	2		20
4-Methyl-2-pentanone	110		110		59-130	0		20
2-Hexanone	110		110		57-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1937322

Project Number: 170500202

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1275704-8 WG1275704-9								
Bromochloromethane	95		94		70-130	1		20
2,2-Dichloropropane	83		86		63-133	4		20
1,2-Dibromoethane	98		99		70-130	1		20
1,3-Dichloropropane	99		100		70-130	1		20
1,1,1,2-Tetrachloroethane	91		93		64-130	2		20
Bromobenzene	97		97		70-130	0		20
n-Butylbenzene	87		89		53-136	2		20
sec-Butylbenzene	90		91		70-130	1		20
tert-Butylbenzene	90		91		70-130	1		20
o-Chlorotoluene	95		120		70-130	23	Q	20
p-Chlorotoluene	95		95		70-130	0		20
1,2-Dibromo-3-chloropropane	100		100		41-144	0		20
Hexachlorobutadiene	86		84		63-130	2		20
Isopropylbenzene	92		91		70-130	1		20
p-Isopropyltoluene	90		92		70-130	2		20
Naphthalene	120		110		70-130	9		20
n-Propylbenzene	91		92		69-130	1		20
1,2,3-Trichlorobenzene	110		110		70-130	0		20
1,2,4-Trichlorobenzene	110		100		70-130	10		20
1,3,5-Trimethylbenzene	90		92		64-130	2		20
1,2,4-Trimethylbenzene	95		95		70-130	0		20
1,4-Dioxane	108		102		56-162	6		20
p-Diethylbenzene	90		91		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1937322

Report Date: 08/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1275704-8 WG1275704-9								
p-Ethyltoluene	93		93		70-130	0		20
1,2,4,5-Tetramethylbenzene	98		99		70-130	1		20
Ethyl ether	93		97		59-134	4		20
trans-1,4-Dichloro-2-butene	93		89		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		101		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	105		102		70-130
Dibromofluoromethane	95		95		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1937322

Report Date: 08/26/19

<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>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1275704-16 WG1275704-17 QC Sample: L1937322-02 Client ID: PM_DUP01_081919												
Methylene chloride	1.0J	10	9.8	98		11	110		70-130	12		20
1,1-Dichloroethane	ND	10	9.0	90		10	100		70-130	11		20
Chloroform	6.4	10	15	86		16	96		70-130	6		20
Carbon tetrachloride	ND	10	9.7	97		11	110		63-132	13		20
1,2-Dichloropropane	ND	10	9.2	92		10	100		70-130	8		20
Dibromochloromethane	ND	10	9.0	90		10	100		63-130	11		20
1,1,2-Trichloroethane	ND	10	39	390	Q	41	410	Q	70-130	5		20
Tetrachloroethene	1.9	10	12	101		12	101		70-130	0		20
Chlorobenzene	ND	10	9.4	94		10	100		75-130	6		20
Trichlorofluoromethane	ND	10	10	100		11	110		62-150	10		20
1,2-Dichloroethane	ND	10	9.2	92		10	100		70-130	8		20
1,1,1-Trichloroethane	ND	10	9.2	92		10	100		67-130	8		20
Bromodichloromethane	ND	10	9.2	92		10	100		67-130	8		20
trans-1,3-Dichloropropene	ND	10	8.9	89		9.9	99		70-130	11		20
cis-1,3-Dichloropropene	ND	10	8.9	89		10	100		70-130	12		20
1,1-Dichloropropene	ND	10	9.6	96		11	110		70-130	14		20
Bromoform	ND	10	8.8	88		9.6	96		54-136	9		20
1,1,2,2-Tetrachloroethane	ND	10	9.9	99		12	120		67-130	19		20
Benzene	ND	10	9.2	92		10	100		70-130	8		20
Toluene	ND	10	9.3	93		10	100		70-130	7		20
Ethylbenzene	ND	10	9.5	95		10	100		70-130	5		20
Chloromethane	ND	10	9.1	91		10	100		64-130	9		20
Bromomethane	1.0J	10	10	100		12	120		39-139	18		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1937322

Report Date: 08/26/19

<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>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1275704-16 WG1275704-17 QC Sample: L1937322-02 Client ID: PM_DUP01_081919												
Vinyl chloride	ND	10	9.5	95		11	110		55-140	15		20
Chloroethane	ND	10	9.2	92		10	100		55-138	8		20
1,1-Dichloroethene	ND	10	9.5	95		10	100		61-145	5		20
trans-1,2-Dichloroethene	ND	10	9.1	91		10	100		70-130	9		20
Trichloroethene	ND	10	9.8	98		11	110		70-130	12		20
1,2-Dichlorobenzene	ND	10	9.6	96		11	110		70-130	14		20
1,3-Dichlorobenzene	ND	10	9.3	93		10	100		70-130	7		20
1,4-Dichlorobenzene	ND	10	9.3	93		10	100		70-130	7		20
Methyl tert butyl ether	ND	10	9.3	93		10	100		63-130	7		20
p/m-Xylene	ND	20	19	95		21	105		70-130	10		20
o-Xylene	ND	20	19	95		22	110		70-130	15		20
cis-1,2-Dichloroethene	ND	10	9.0	90		10	100		70-130	11		20
Dibromomethane	ND	10	9.5	95		10	100		70-130	5		20
1,2,3-Trichloropropane	ND	10	9.8	98		9.9	99		64-130	1		20
Acrylonitrile	ND	10	9.8	98		11	110		70-130	12		20
Styrene	ND	20	17	85		19	95		70-130	11		20
Dichlorodifluoromethane	ND	10	9.0	90		9.8	98		36-147	9		20
Acetone	7.4	10	17	96		17	96		58-148	0		20
Carbon disulfide	ND	10	9.3	93		10	100		51-130	7		20
2-Butanone	ND	10	47	470	Q	49	490	Q	63-138	4		20
Vinyl acetate	ND	10	8.6	86		9.4	94		70-130	9		20
4-Methyl-2-pentanone	ND	10	11	110		12	120		59-130	9		20
2-Hexanone	ND	10	14	140	Q	16	160	Q	57-130	13		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1937322

Report Date: 08/26/19

<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>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1275704-16 WG1275704-17 QC Sample: L1937322-02 Client ID: PM_DUP01_081919												
Bromochloromethane	ND	10	9.2	92		10	100		70-130	8		20
2,2-Dichloropropane	ND	10	8.2	82		9.3	93		63-133	13		20
1,2-Dibromoethane	ND	10	10	100		11	110		70-130	10		20
1,3-Dichloropropane	ND	10	9.5	95		10	100		70-130	5		20
1,1,1,2-Tetrachloroethane	ND	10	9.0	90		10	100		64-130	11		20
Bromobenzene	ND	10	9.1	91		10	100		70-130	9		20
n-Butylbenzene	0.94J	10	11	110		12	120		53-136	9		20
sec-Butylbenzene	3.8	10	14	102		15	112		70-130	7		20
tert-Butylbenzene	2.3J	10	12	120		13	130		70-130	8		20
o-Chlorotoluene	ND	10	9.7	97		11	110		70-130	13		20
p-Chlorotoluene	ND	10	9.3	93		10	100		70-130	7		20
1,2-Dibromo-3-chloropropane	ND	10	9.7	97		11	110		41-144	13		20
Hexachlorobutadiene	ND	10	9.9	99		11	110		63-130	11		20
Isopropylbenzene	ND	10	10	100		11	110		70-130	10		20
p-Isopropyltoluene	ND	10	11	110		12	120		70-130	9		20
Naphthalene	1.1J	10	12	120		14	140	Q	70-130	15		20
n-Propylbenzene	ND	10	10	100		11	110		69-130	10		20
1,2,3-Trichlorobenzene	ND	10	10	100		12	120		70-130	18		20
1,2,4-Trichlorobenzene	ND	10	10	100		11	110		70-130	10		20
1,3,5-Trimethylbenzene	ND	10	9.5	95		11	110		64-130	15		20
1,2,4-Trimethylbenzene	ND	10	9.8	98		11	110		70-130	12		20
1,4-Dioxane	ND	500	390	78		520	104		56-162	29	Q	20
p-Diethylbenzene	5.8	10	16	102		17	112		70-130	6		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1937322

Report Date: 08/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1275704-16 WG1275704-17 QC Sample: L1937322-02 Client ID: PM_DUP01_081919												
p-Ethyltoluene	ND	10	9.8	98		11	110		70-130	12		20
1,2,4,5-Tetramethylbenzene	14	10	24	100		26	120		70-130	8		20
Ethyl ether	ND	10	9.3	93		10	100		59-134	7		20
trans-1,4-Dichloro-2-butene	ND	10	9.4	94		10	100		70-130	6		20

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		102		70-130
4-Bromofluorobenzene	112		110		70-130
Dibromofluoromethane	96		96		70-130
Toluene-d8	112		113		70-130

Project Name: 300 WEST 122ND ST.**Lab Number:** L1937322**Project Number:** 170500202**Report Date:** 08/26/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1937322-01A	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260(14)
L1937322-01B	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260(14)
L1937322-01C	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260(14)
L1937322-02A	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260(14)
L1937322-02A1	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260(14)
L1937322-02A2	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260(14)
L1937322-02B	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260(14)
L1937322-02B1	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260(14)
L1937322-02B2	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260(14)
L1937322-02C	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260(14)
L1937322-02C1	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260(14)
L1937322-02C2	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260(14)

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1937322
Report Date: 08/26/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1937322
Report Date: 08/26/19

- 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

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when using acetone as a solvent.
- 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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1937322
Report Date: 08/26/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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.



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	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 8/20/19	ALPHA Job # L1937322																																
		Project Information Project Name: 300 West 122nd St. Project Location: NY, NY 10027 Project # 170500202 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #																															
Client Information Client: LANGAN, DPC Address: 360 W. 43rd St, 8th Floor NY, NY 10001 Phone: 212-479-5400 Fax: Email: GWYKA@LANGAN.COM		Project Manager: Greg Wyka ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other TCL/TAL <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																															
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.				ANALYSIS Part 375/TCL WQS																																	
				Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>37322-01</td> <td>PM-GW06-081919</td> <td>8/19/19</td> <td>1240</td> <td>AG</td> <td>AS</td> </tr> <tr> <td>-02</td> <td>PM-DUP01-081919</td> <td>↓</td> <td>-</td> <td>↓</td> <td>↓</td> </tr> <tr> <td>↓</td> <td>PM-MS01-081919</td> <td>↓</td> <td>-</td> <td>↓</td> <td>↓</td> </tr> <tr> <td></td> <td>PM-MSD01-081919</td> <td>↓</td> <td>-</td> <td>↓</td> <td>↓</td> </tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Date	Time	37322-01	PM-GW06-081919	8/19/19	1240	AG	AS	-02	PM-DUP01-081919	↓	-	↓	↓	↓	PM-MS01-081919	↓	-	↓	↓		PM-MSD01-081919	↓	-	↓	↓				
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	PM-MSD01-081919	↓	-	↓	↓																																
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		Relinquished By: Ashley Goppert Date/Time: 8/19/19 1405 Received By: Rimek Jackson, AAL Date/Time: 8/19/19 1405 Date/Time: 8/19/19 00:15 Date/Time: 8/20/19 00:15																																	
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.)																																					

JOB: L1939948 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
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
1040: Metals Matrix Spike Report - OK
1050: Metals Duplicate Report - OK
1180: Inorganics Cover Page - OK
1200: Wet Chemistry Sample Results - OK
1210: Wet Chemistry Method Blank Report - OK
1220: Wet Chemistry LCS Report - OK
1240: Wet Chemistry Matrix Spike Report - OK
1250: Wet Chemistry Duplicate Report - OK
5100: Sample Receipt & Container Information Report - OK
5200: Glossary - OK
5400: References - OK

No results found for sample L1939948-02 for product NYTCL-8260



ANALYTICAL REPORT

Lab Number:	L1939948
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND STREET
Project Number:	170500202
Report Date:	09/05/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1939948-01	EP05_9.0_090319	SOIL	MANHATTAN, NY	09/03/19 13:45	09/03/19
L1939948-02	PM_GW07_090319	WATER	MANHATTAN, NY	09/03/19 13:10	09/03/19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Case Narrative (continued)

Report Submission

September 05, 2019: This is a preliminary report.

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

Semivolatile Organics

The WG1279865-2/-3 LCS/LCSD recoveries, associated with L1939948-01, are below the individual acceptance criteria for 3,3'-dichlorobenzidine (39%/38%), but within the overall method allowances. The results of the associated samples are reported.

The WG1279865-2/-3 LCS/LCSD recoveries, associated with L1939948-01, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Total Metals

L1939948-01: 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.

The WG1279932-3 MS recoveries for aluminum (463%) and iron (1000%), performed on L1939948-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1279932-4 Laboratory Duplicate RPDs for chromium (40%), copper (25%), nickel (30%), vanadium (45%) and zinc (29%), performed on L1939948-01, are outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Cyanide, Total

The WG1279929-2/-3 LCS/LCSD recoveries (57%/68%), associated with L1939948-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

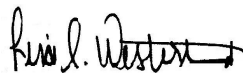
Case Narrative (continued)

Hexavalent Chromium

The WG1279930-2 LCS recovery (77%), associated with L1939948-01, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:



Lisa Westerlind

Title: Technical Director/Representative

Date: 09/05/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/04/19 09:40
 Analyst: JC
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.92	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.92	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.92	0.11	1
Dibromochloromethane	ND		ug/kg	0.92	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	0.24	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.14	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.92	0.50	1
Ethylbenzene	ND		ug/kg	0.92	0.13	1
Chloromethane	ND		ug/kg	3.7	0.85	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.92	0.31	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.92	0.27	1
Xylenes, Total	ND		ug/kg	0.92	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.92	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.92	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.84	1
Acetone	22		ug/kg	9.2	4.4	1
Carbon disulfide	ND		ug/kg	9.2	4.2	1
2-Butanone	ND		ug/kg	9.2	2.0	1
Vinyl acetate	ND		ug/kg	9.2	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.2	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.92	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.92	0.15	1
sec-Butylbenzene	ND		ug/kg	0.92	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.18	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.91	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.15	1
Isopropylbenzene	ND		ug/kg	0.92	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.10	1
Naphthalene	ND		ug/kg	3.7	0.60	1
Acrylonitrile	ND		ug/kg	3.7	1.0	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
Client ID: EP05_9.0_090319
Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
Date Received: 09/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.92	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.31	1
1,4-Dioxane	ND		ug/kg	73	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.18	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 09/04/19 07:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1280099-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.16	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 09/04/19 07:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1280099-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.35	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 09/04/19 07:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1280099-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	88		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1280099-3 WG1280099-4								
Methylene chloride	92		93		70-130	1		30
1,1-Dichloroethane	110		109		70-130	1		30
Chloroform	104		105		70-130	1		30
Carbon tetrachloride	105		105		70-130	0		30
1,2-Dichloropropane	114		114		70-130	0		30
Dibromochloromethane	103		105		70-130	2		30
1,1,2-Trichloroethane	107		109		70-130	2		30
Tetrachloroethene	110		111		70-130	1		30
Chlorobenzene	105		107		70-130	2		30
Trichlorofluoromethane	96		96		70-139	0		30
1,2-Dichloroethane	103		103		70-130	0		30
1,1,1-Trichloroethane	104		104		70-130	0		30
Bromodichloromethane	103		103		70-130	0		30
trans-1,3-Dichloropropene	114		116		70-130	2		30
cis-1,3-Dichloropropene	112		113		70-130	1		30
1,1-Dichloropropene	114		112		70-130	2		30
Bromoform	108		107		70-130	1		30
1,1,1,2-Tetrachloroethane	108		108		70-130	0		30
Benzene	106		105		70-130	1		30
Toluene	111		112		70-130	1		30
Ethylbenzene	114		115		70-130	1		30
Chloromethane	81		82		52-130	1		30
Bromomethane	69		72		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1280099-3 WG1280099-4								
Vinyl chloride	81		81		67-130	0		30
Chloroethane	80		80		50-151	0		30
1,1-Dichloroethene	99		99		65-135	0		30
trans-1,2-Dichloroethene	104		105		70-130	1		30
Trichloroethene	103		102		70-130	1		30
1,2-Dichlorobenzene	105		106		70-130	1		30
1,3-Dichlorobenzene	110		107		70-130	3		30
1,4-Dichlorobenzene	107		107		70-130	0		30
Methyl tert butyl ether	106		107		66-130	1		30
p/m-Xylene	114		114		70-130	0		30
o-Xylene	113		114		70-130	1		30
cis-1,2-Dichloroethene	104		104		70-130	0		30
Dibromomethane	98		100		70-130	2		30
Styrene	117		121		70-130	3		30
Dichlorodifluoromethane	46		45		30-146	2		30
Acetone	103		102		54-140	1		30
Carbon disulfide	92		92		59-130	0		30
2-Butanone	112		113		70-130	1		30
Vinyl acetate	117		117		70-130	0		30
4-Methyl-2-pentanone	128		128		70-130	0		30
1,2,3-Trichloropropane	108		108		68-130	0		30
2-Hexanone	118		120		70-130	2		30
Bromochloromethane	97		99		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1280099-3 WG1280099-4								
2,2-Dichloropropane	109		108		70-130	1		30
1,2-Dibromoethane	106		107		70-130	1		30
1,3-Dichloropropane	110		113		69-130	3		30
1,1,1,2-Tetrachloroethane	104		106		70-130	2		30
Bromobenzene	107		105		70-130	2		30
n-Butylbenzene	121		119		70-130	2		30
sec-Butylbenzene	117		115		70-130	2		30
tert-Butylbenzene	116		114		70-130	2		30
o-Chlorotoluene	115		114		70-130	1		30
p-Chlorotoluene	117		116		70-130	1		30
1,2-Dibromo-3-chloropropane	107		104		68-130	3		30
Hexachlorobutadiene	115		114		67-130	1		30
Isopropylbenzene	117		115		70-130	2		30
p-Isopropyltoluene	118		117		70-130	1		30
Naphthalene	112		112		70-130	0		30
Acrylonitrile	124		126		70-130	2		30
n-Propylbenzene	116		114		70-130	2		30
1,2,3-Trichlorobenzene	113		113		70-130	0		30
1,2,4-Trichlorobenzene	114		113		70-130	1		30
1,3,5-Trimethylbenzene	117		116		70-130	1		30
1,2,4-Trimethylbenzene	117		118		70-130	1		30
1,4-Dioxane	107		111		65-136	4		30
p-Diethylbenzene	124		121		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1939948

Report Date: 09/05/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1280099-3 WG1280099-4								
p-Ethyltoluene	123		121		70-130	2		30
1,2,4,5-Tetramethylbenzene	122		121		70-130	1		30
Ethyl ether	101		102		67-130	1		30
trans-1,4-Dichloro-2-butene	120		122		70-130	2		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	96		96		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	91		91		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/04/19 15:25
 Analyst: EK
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 09/04/19 01:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	24	J	ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	26	J	ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	65		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/04/19 13:56
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 09/04/19 01:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1279865-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/04/19 13:56
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 09/04/19 01:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1279865-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 09/04/19 13:56
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 09/04/19 01:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1279865-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	42		23-120
2-Fluorobiphenyl	45		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	60		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1279865-2 WG1279865-3								
Acenaphthene	56		55		31-137	2		50
1,2,4-Trichlorobenzene	58		55		38-107	5		50
Hexachlorobenzene	56		55		40-140	2		50
Bis(2-chloroethyl)ether	56		53		40-140	6		50
2-Chloronaphthalene	57		56		40-140	2		50
1,2-Dichlorobenzene	59		54		40-140	9		50
1,3-Dichlorobenzene	58		54		40-140	7		50
1,4-Dichlorobenzene	58		54		28-104	7		50
3,3'-Dichlorobenzidine	39	Q	38	Q	40-140	3		50
2,4-Dinitrotoluene	56		55		40-132	2		50
2,6-Dinitrotoluene	62		61		40-140	2		50
Fluoranthene	57		56		40-140	2		50
4-Chlorophenyl phenyl ether	56		54		40-140	4		50
4-Bromophenyl phenyl ether	60		53		40-140	12		50
Bis(2-chloroisopropyl)ether	55		51		40-140	8		50
Bis(2-chloroethoxy)methane	60		54		40-117	11		50
Hexachlorobutadiene	57		54		40-140	5		50
Hexachlorocyclopentadiene	48		47		40-140	2		50
Hexachloroethane	60		56		40-140	7		50
Isophorone	63		59		40-140	7		50
Naphthalene	54		53		40-140	2		50
Nitrobenzene	61		53		40-140	14		50
NDPA/DPA	57		55		36-157	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1279865-2 WG1279865-3								
n-Nitrosodi-n-propylamine	62		58		32-121	7		50
Bis(2-ethylhexyl)phthalate	73		71		40-140	3		50
Butyl benzyl phthalate	63		62		40-140	2		50
Di-n-butylphthalate	63		62		40-140	2		50
Di-n-octylphthalate	73		71		40-140	3		50
Diethyl phthalate	63		60		40-140	5		50
Dimethyl phthalate	61		59		40-140	3		50
Benzo(a)anthracene	53		52		40-140	2		50
Benzo(a)pyrene	54		51		40-140	6		50
Benzo(b)fluoranthene	55		53		40-140	4		50
Benzo(k)fluoranthene	61		58		40-140	5		50
Chrysene	54		54		40-140	0		50
Acenaphthylene	57		56		40-140	2		50
Anthracene	60		59		40-140	2		50
Benzo(ghi)perylene	54		52		40-140	4		50
Fluorene	58		57		40-140	2		50
Phenanthrene	55		54		40-140	2		50
Dibenzo(a,h)anthracene	54		55		40-140	2		50
Indeno(1,2,3-cd)pyrene	53		52		40-140	2		50
Pyrene	54		53		35-142	2		50
Biphenyl	60		60		37-127	0		50
4-Chloroaniline	67		60		40-140	11		50
2-Nitroaniline	60		59		47-134	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1279865-2 WG1279865-3								
3-Nitroaniline	48		47		26-129	2		50
4-Nitroaniline	49		45		41-125	9		50
Dibenzofuran	55		54		40-140	2		50
2-Methylnaphthalene	57		56		40-140	2		50
1,2,4,5-Tetrachlorobenzene	54		52		40-117	4		50
Acetophenone	67		63		14-144	6		50
2,4,6-Trichlorophenol	56		55		30-130	2		50
p-Chloro-m-cresol	64		63		26-103	2		50
2-Chlorophenol	60		58		25-102	3		50
2,4-Dichlorophenol	61		56		30-130	9		50
2,4-Dimethylphenol	66		63		30-130	5		50
2-Nitrophenol	61		58		30-130	5		50
4-Nitrophenol	46		44		11-114	4		50
2,4-Dinitrophenol	27		32		4-130	17		50
4,6-Dinitro-o-cresol	48		44		10-130	9		50
Pentachlorophenol	44		42		17-109	5		50
Phenol	63		60		26-90	5		50
2-Methylphenol	61		58		30-130.	5		50
3-Methylphenol/4-Methylphenol	65		60		30-130	8		50
2,4,5-Trichlorophenol	55		53		30-130	4		50
Benzoic Acid	0	Q	0	Q	10-110	NC		50
Benzyl Alcohol	59		57		40-140	3		50
Carbazole	56		54		54-128	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1279865-2 WG1279865-3								
1,4-Dioxane	52		48		40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		57		25-120
Phenol-d6	61		57		10-120
Nitrobenzene-d5	51		46		23-120
2-Fluorobiphenyl	47		45		30-120
2,4,6-Tribromophenol	60		59		10-136
4-Terphenyl-d14	46		45		18-120

PCBS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
Client ID: EP05_9.0_090319
Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
Date Received: 09/03/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/04/19 15:15
Analyst: KB
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 09/04/19 02:15
Cleanup Method: EPA 3665A
Cleanup Date: 09/04/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/04/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	32.8	2.91	1	A
Aroclor 1221	ND		ug/kg	32.8	3.29	1	A
Aroclor 1232	ND		ug/kg	32.8	6.96	1	A
Aroclor 1242	ND		ug/kg	32.8	4.42	1	A
Aroclor 1248	ND		ug/kg	32.8	4.92	1	A
Aroclor 1254	ND		ug/kg	32.8	3.59	1	A
Aroclor 1260	ND		ug/kg	32.8	6.06	1	A
Aroclor 1262	ND		ug/kg	32.8	4.17	1	A
Aroclor 1268	ND		ug/kg	32.8	3.40	1	A
PCBs, Total	ND		ug/kg	32.8	2.91	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 09/04/19 17:14
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 09/04/19 00:33
Cleanup Method: EPA 3665A
Cleanup Date: 09/04/19
Cleanup Method: EPA 3660B
Cleanup Date: 09/04/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1279857-1						
Aroclor 1016	ND		ug/kg	32.7	2.90	A
Aroclor 1221	ND		ug/kg	32.7	3.27	A
Aroclor 1232	ND		ug/kg	32.7	6.93	A
Aroclor 1242	ND		ug/kg	32.7	4.40	A
Aroclor 1248	ND		ug/kg	32.7	4.90	A
Aroclor 1254	ND		ug/kg	32.7	3.58	A
Aroclor 1260	ND		ug/kg	32.7	6.04	A
Aroclor 1262	ND		ug/kg	32.7	4.15	A
Aroclor 1268	ND		ug/kg	32.7	3.38	A
PCBs, Total	ND		ug/kg	32.7	2.90	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	60		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1279857-2 WG1279857-3									
Aroclor 1016	105		87		40-140	19		50	A
Aroclor 1260	96		78		40-140	21		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		80		30-150	A
Decachlorobiphenyl	99		80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	109		81		30-150	B
Decachlorobiphenyl	109		81		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/04/19 11:47
 Analyst: AMC
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 09/04/19 02:02
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/04/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.61	0.315	1	A
Lindane	ND		ug/kg	0.671	0.300	1	A
Alpha-BHC	ND		ug/kg	0.671	0.190	1	A
Beta-BHC	ND		ug/kg	1.61	0.610	1	A
Heptachlor	ND		ug/kg	0.805	0.361	1	A
Aldrin	ND		ug/kg	1.61	0.567	1	A
Heptachlor epoxide	ND		ug/kg	3.02	0.905	1	A
Endrin	ND		ug/kg	0.671	0.275	1	B
Endrin aldehyde	ND		ug/kg	2.01	0.704	1	A
Endrin ketone	ND		ug/kg	1.61	0.414	1	A
Dieldrin	ND		ug/kg	1.00	0.503	1	A
4,4'-DDE	ND		ug/kg	1.61	0.372	1	A
4,4'-DDD	ND		ug/kg	1.61	0.574	1	A
4,4'-DDT	ND		ug/kg	3.02	1.29	1	A
Endosulfan I	ND		ug/kg	1.61	0.380	1	A
Endosulfan II	ND		ug/kg	1.61	0.538	1	A
Endosulfan sulfate	ND		ug/kg	0.671	0.319	1	A
Methoxychlor	ND		ug/kg	3.02	0.939	1	A
Toxaphene	ND		ug/kg	30.2	8.45	1	A
cis-Chlordane	ND		ug/kg	2.01	0.561	1	A
trans-Chlordane	ND		ug/kg	2.01	0.531	1	A
Chlordane	ND		ug/kg	13.1	5.33	1	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	70		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/04/19 14:17
 Analyst: DGM
 Percent Solids: 95%
 Methylation Date: 09/04/19 11:55

Extraction Method: EPA 8151A
 Extraction Date: 09/04/19 03:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	173	10.9	1	A
2,4,5-T	ND		ug/kg	173	5.37	1	A
2,4,5-TP (Silvex)	ND		ug/kg	173	4.61	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	72		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 09/04/19 11:12
Analyst: AMC

Extraction Method: EPA 3546
Extraction Date: 09/03/19 03:20
Cleanup Method: EPA 3620B
Cleanup Date: 09/04/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1279447-1						
Delta-BHC	ND		ug/kg	1.51	0.295	A
Lindane	ND		ug/kg	0.628	0.281	A
Alpha-BHC	ND		ug/kg	0.628	0.178	A
Beta-BHC	ND		ug/kg	1.51	0.571	A
Heptachlor	ND		ug/kg	0.753	0.338	A
Aldrin	ND		ug/kg	1.51	0.530	A
Heptachlor epoxide	ND		ug/kg	2.82	0.847	A
Endrin	ND		ug/kg	0.628	0.257	A
Endrin aldehyde	ND		ug/kg	1.88	0.659	A
Endrin ketone	ND		ug/kg	1.51	0.388	A
Dieldrin	ND		ug/kg	0.942	0.471	A
4,4'-DDE	ND		ug/kg	1.51	0.348	A
4,4'-DDD	ND		ug/kg	1.51	0.537	A
4,4'-DDT	ND		ug/kg	2.82	1.21	A
Endosulfan I	ND		ug/kg	1.51	0.356	A
Endosulfan II	ND		ug/kg	1.51	0.503	A
Endosulfan sulfate	ND		ug/kg	0.628	0.299	A
Methoxychlor	ND		ug/kg	2.82	0.879	A
Toxaphene	ND		ug/kg	28.2	7.91	A
cis-Chlordane	ND		ug/kg	1.88	0.525	A
trans-Chlordane	ND		ug/kg	1.88	0.497	A
Chlordane	ND		ug/kg	12.2	4.99	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 09/04/19 11:12
Analyst: AMC

Extraction Method: EPA 3546
Extraction Date: 09/03/19 03:20
Cleanup Method: EPA 3620B
Cleanup Date: 09/04/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1279447-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		30-150	B
Decachlorobiphenyl	103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	77		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 09/04/19 13:22
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 09/04/19 03:21

Methylation Date: 09/04/19 11:55

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1279878-1						
2,4-D	ND		ug/kg	163	10.3	A
2,4,5-T	ND		ug/kg	163	5.05	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	82		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1939948

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1279447-2 WG1279447-3									
Delta-BHC	100		95		30-150	5		30	A
Lindane	101		98		30-150	3		30	A
Alpha-BHC	105		103		30-150	2		30	A
Beta-BHC	94		91		30-150	3		30	A
Heptachlor	105		101		30-150	4		30	A
Aldrin	101		95		30-150	6		30	A
Heptachlor epoxide	97		92		30-150	5		30	A
Endrin	115		105		30-150	9		30	A
Endrin aldehyde	82		45		30-150	58	Q	30	A
Endrin ketone	102		72		30-150	34	Q	30	A
Dieldrin	116		106		30-150	9		30	A
4,4'-DDE	109		99		30-150	10		30	A
4,4'-DDD	117		105		30-150	11		30	A
4,4'-DDT	117		106		30-150	10		30	A
Endosulfan I	98		90		30-150	9		30	A
Endosulfan II	107		96		30-150	11		30	A
Endosulfan sulfate	96		53		30-150	58	Q	30	A
Methoxychlor	102		89		30-150	14		30	A
cis-Chlordane	86		79		30-150	8		30	A
trans-Chlordane	98		92		30-150	6		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1939948

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1279447-2 WG1279447-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		98		30-150	B
Decachlorobiphenyl	88		91		30-150	B
2,4,5,6-Tetrachloro-m-xylene	94		97		30-150	A
Decachlorobiphenyl	80		73		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1279878-2 WG1279878-3									
2,4-D	90		87		30-150	3		30	A
2,4,5-T	105		104		30-150	1		30	A
2,4,5-TP (Silvex)	99		97		30-150	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	97		86		30-150	A
DCAA	95		87		30-150	B

METALS

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
 Client ID: EP05_9.0_090319
 Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
 Date Received: 09/03/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1430		mg/kg	8.06	2.18	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.03	0.306	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.806	0.168	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Barium, Total	14.5		mg/kg	0.806	0.140	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Beryllium, Total	0.137	J	mg/kg	0.403	0.027	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.806	0.079	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Calcium, Total	503		mg/kg	8.06	2.82	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Chromium, Total	4.35		mg/kg	0.806	0.077	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Cobalt, Total	1.88		mg/kg	1.61	0.134	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Copper, Total	6.84		mg/kg	0.806	0.208	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Iron, Total	3390		mg/kg	4.03	0.728	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Lead, Total	3.26	J	mg/kg	4.03	0.216	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Magnesium, Total	673		mg/kg	8.06	1.24	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Manganese, Total	33.2		mg/kg	0.806	0.128	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.066	0.043	1	09/04/19 07:30	09/04/19 11:48	EPA 7471B	1,7471B	GD
Nickel, Total	4.39		mg/kg	2.02	0.195	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Potassium, Total	314		mg/kg	202	11.6	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.61	0.208	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.806	0.228	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Sodium, Total	32.9	J	mg/kg	161	2.54	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.61	0.254	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Vanadium, Total	5.26		mg/kg	0.806	0.164	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
Zinc, Total	6.64		mg/kg	4.03	0.236	2	09/04/19 08:30	09/04/19 12:00	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.4		mg/kg	0.84	0.84	1		09/04/19 12:00	NA	107,-	



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

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): 01 Batch: WG1279170-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	09/04/19 07:30	09/04/19 11:28	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1279932-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Antimony, Total	ND	mg/kg	2.00	0.152	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Barium, Total	ND	mg/kg	0.400	0.070	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Calcium, Total	ND	mg/kg	4.00	1.40	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Chromium, Total	ND	mg/kg	0.400	0.038	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Copper, Total	ND	mg/kg	0.400	0.103	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Iron, Total	0.640	J	mg/kg	2.00	0.361	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Manganese, Total	0.192	J	mg/kg	0.400	0.064	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC
Nickel, Total	ND	mg/kg	1.00	0.097	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Potassium, Total	ND	mg/kg	100	5.76	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Selenium, Total	ND	mg/kg	0.800	0.103	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Silver, Total	ND	mg/kg	0.400	0.113	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Sodium, Total	ND	mg/kg	80.0	1.26	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Thallium, Total	ND	mg/kg	0.800	0.126	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	
Zinc, Total	ND	mg/kg	2.00	0.117	1	09/04/19 08:30	09/04/19 11:52	1,6010D	LC	

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1279170-2 SRM Lot Number: D105-540								
Mercury, Total	96		-		60-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1939948

Report Date: 09/05/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1279932-2 SRM Lot Number: D105-540					
Aluminum, Total	61	-	51-149	-	
Antimony, Total	160	-	19-249	-	
Arsenic, Total	108	-	70-130	-	
Barium, Total	88	-	75-125	-	
Beryllium, Total	96	-	75-125	-	
Cadmium, Total	98	-	75-125	-	
Calcium, Total	85	-	73-127	-	
Chromium, Total	96	-	70-130	-	
Cobalt, Total	98	-	75-125	-	
Copper, Total	99	-	75-125	-	
Iron, Total	82	-	38-162	-	
Lead, Total	99	-	71-128	-	
Magnesium, Total	80	-	63-137	-	
Manganese, Total	88	-	76-124	-	
Nickel, Total	99	-	70-131	-	
Potassium, Total	79	-	60-140	-	
Selenium, Total	104	-	63-137	-	
Silver, Total	98	-	69-131	-	
Sodium, Total	94	-	37-162	-	
Thallium, Total	100	-	68-132	-	
Vanadium, Total	95	-	65-135	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1279932-2 SRM Lot Number: D105-540					
Zinc, Total	100	-	70-130	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1279170-3 WG1279170-4 QC Sample: L1939225-04 Client ID: MS Sample												
Mercury, Total	ND	0.174	0.182	105		0.170	99		80-120	7		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1279932-3 QC Sample: L1939948-01 Client ID: EP05_9.0_090319									
Aluminum, Total	1430	158	2160	463	Q	-	75-125	-	20
Antimony, Total	ND	39.4	38.0	96		-	75-125	-	20
Arsenic, Total	ND	9.46	9.97	105		-	75-125	-	20
Barium, Total	14.5	158	169	98		-	75-125	-	20
Beryllium, Total	0.137J	3.94	3.94	100		-	75-125	-	20
Cadmium, Total	ND	4.02	3.81	95		-	75-125	-	20
Calcium, Total	503	789	1310	102		-	75-125	-	20
Chromium, Total	4.35	15.8	21.0	106		-	75-125	-	20
Cobalt, Total	1.88	39.4	39.0	94		-	75-125	-	20
Copper, Total	6.84	19.7	26.9	102		-	75-125	-	20
Iron, Total	3390	78.9	4180	1000	Q	-	75-125	-	20
Lead, Total	3.26J	40.2	42.0	104		-	75-125	-	20
Magnesium, Total	673	789	1620	120		-	75-125	-	20
Manganese, Total	33.2	39.4	81.0	121		-	75-125	-	20
Nickel, Total	4.39	39.4	42.7	97		-	75-125	-	20
Potassium, Total	314	789	1110	101		-	75-125	-	20
Selenium, Total	ND	9.46	9.35	99		-	75-125	-	20
Silver, Total	ND	23.7	23.6	100		-	75-125	-	20
Sodium, Total	32.9J	789	836	106		-	75-125	-	20
Thallium, Total	ND	9.46	8.90	94		-	75-125	-	20
Vanadium, Total	5.26	39.4	45.6	102		-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1279932-3 QC Sample: L1939948-01 Client ID: EP05_9.0_090319									
Zinc, Total	6.64	39.4	47.5	104	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1939948

Report Date: 09/05/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1279932-4 QC Sample: L1939948-01 Client ID: EP05_9.0_090319						
Aluminum, Total	1430	1710	mg/kg	18		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	ND	ND	mg/kg	NC		20
Barium, Total	14.5	12.9	mg/kg	12		20
Beryllium, Total	0.137J	0.150J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	503	608	mg/kg	19		20
Chromium, Total	4.35	6.52	mg/kg	40	Q	20
Cobalt, Total	1.88	2.27	mg/kg	19		20
Copper, Total	6.84	8.82	mg/kg	25	Q	20
Iron, Total	3390	3910	mg/kg	14		20
Lead, Total	3.26J	3.94J	mg/kg	NC		20
Magnesium, Total	673	787	mg/kg	16		20
Manganese, Total	33.2	29.5	mg/kg	12		20
Nickel, Total	4.39	5.92	mg/kg	30	Q	20
Potassium, Total	314	329	mg/kg	5		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	32.9J	45.5J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1939948

Report Date: 09/05/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1279932-4 QC Sample: L1939948-01 Client ID: EP05_9.0_090319					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	5.26	8.31	mg/kg	45 Q	20
Zinc, Total	6.64	8.93	mg/kg	29 Q	20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1939948
Report Date: 09/05/19

SAMPLE RESULTS

Lab ID: L1939948-01
Client ID: EP05_9.0_090319
Sample Location: MANHATTAN, NY

Date Collected: 09/03/19 13:45
Date Received: 09/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.4		%	0.100	NA	1	-	09/04/19 03:40	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	09/04/19 04:48	09/04/19 11:23	1,9010C/9012B	ML
Chromium, Hexavalent	ND		mg/kg	0.838	0.168	1	09/04/19 03:30	09/04/19 08:21	1,7196A	NH



Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

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): 01 Batch: WG1279929-1									
Cyanide, Total	ND	mg/kg	0.94	0.20	1	09/04/19 04:48	09/04/19 11:09	1,9010C/9012B	ML
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1279930-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	09/04/19 03:30	09/04/19 08:21	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1939948

Report Date: 09/05/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1279929-2 WG1279929-3								
Cyanide, Total	57	Q	68	Q	80-120	21		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1279930-2								
Chromium, Hexavalent	77	Q	-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1939948

Project Number: 170500202

Report Date: 09/05/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1279929-4 WG1279929-5 QC Sample: L1939674-06 Client ID: MS Sample												
Cyanide, Total	ND	11	10	91		11	97		75-125	10		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1279930-4 QC Sample: L1939948-01 Client ID: EP05_9.0_090319												
Chromium, Hexavalent	ND	836	895	107		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1939948

Report Date: 09/05/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1279877-1 QC Sample: L1939886-01 Client ID: DUP Sample						
Solids, Total	79.3	79.8	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1279930-6 QC Sample: L1939948-01 Client ID: EP05_9.0_090319						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 300 WEST 122ND STREET**Lab Number:** L1939948**Project Number:** 170500202**Report Date:** 09/05/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1939948-01A	Vial MeOH preserved	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L1939948-01B	Vial water preserved	A	NA		3.9	Y	Absent	04-SEP-19 00:56	NYTCL-8260HLW(14)
L1939948-01C	Vial water preserved	A	NA		3.9	Y	Absent	04-SEP-19 00:56	NYTCL-8260HLW(14)
L1939948-01D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1939948-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	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)
L1939948-01F	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HEXCR-7196(30)
L1939948-01G	Glass 500ml/16oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1939948-01G1	Glass 250ml unpreserved split	A	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1939948-02A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L1939948-02B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L1939948-02C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)

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GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
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- 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

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- 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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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 exceedances 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.

Report Format: DU Report with 'J' Qualifiers



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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, 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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 ALPHA <small>LABORATORY</small>	NEW YORK 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	1	Date Rec'd in Lab 9/3/19	ALPHA Job # L1939948	
		of	1				
Westborough, MA 01581 8 Walkup Dr. TEL: 508-896-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information		Deliverables		Billing Information	
Client Information		Project Name: 300 WEST 122ND STREET Project Location: MANHATTAN, NY Project # 170500202 (Use Project name as Project #) <input type="checkbox"/>		<input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUiS (1 File) <input type="checkbox"/> EQUiS (4 File) <input type="checkbox"/> Other		<input checked="" type="checkbox"/> Same as Client Info PO#	
Client: LANGAN ENG Address: 360 W 31ST STREET NEW YORK, NY 10001 Phone: 212 479 5400 Fax: Email: gwyka@langan.com		Project Manager: GREG WYKA ALPHAQuote #: Turn-Around Time Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:	
These samples have been previously analyzed by Alpha <input type="checkbox"/>		ANALYSIS		NOCs SVOCs PCBs Pesticides/Herbicides TAL Metals Tri/Aer Chem Total Cyanide		Sample Filtration	
Other project specific requirements/comments: <div style="font-size: 2em; text-align: center; padding: 5px;">24 hr TAT for EPOS_9.0_090319 only</div>		Please specify Metals or TAL.				<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)	
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Matrix	Sampler's Initials	NOCs SVOCs PCBs Pesticides/Herbicides TAL Metals Tri/Aer Chem Total Cyanide	Sample Specific Comments	Total Bottle
39948-01 -02	EPOS_9.0_090319 PM-GW07-090319	9/3/19 13:45 9/3/19 13:10	S GW	PS PS	X X X X X X X X	*RUSH* NO RUSH	7 3
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: 01-25 HC (rev. 30-Sept-2013)		Relinquished By:		Date/Time	Received By:		Date/Time
		[Signature]		9/3/19 1420	[Signature]		9/3/19 1420
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		[Signature]		9/3/19 2102	[Signature]		9/3/19 2102