



## ANALYTICAL REPORT

Lab Number:	L1722530
Client:	Hazard Evaluations, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Michele Wittman
Phone:	(716) 667-3130
Project Name:	PH. II ESA
Project Number:	E1641
Report Date:	07/10/17

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**Project Name:** PH. II ESA  
**Project Number:** E1641

**Lab Number:** L1722530  
**Report Date:** 07/10/17

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1722530-01	SB9	WATER	124&145 CHANDLER ST., BUFFALO, NY	06/29/17 15:45	06/30/17
L1722530-02	SB1 (0-2.5')	SOIL	124&145 CHANDLER ST., BUFFALO, NY	06/29/17 09:00	06/30/17
L1722530-03	SB2 (0-2.5')	SOIL	124&145 CHANDLER ST., BUFFALO, NY	06/29/17 09:20	06/30/17
L1722530-04	SB3 (1-5')	SOIL	124&145 CHANDLER ST., BUFFALO, NY	06/29/17 09:50	06/30/17
L1722530-05	SB5 (0-4')	SOIL	124&145 CHANDLER ST., BUFFALO, NY	06/29/17 11:05	06/30/17
L1722530-06	SB6 (0-2')	SOIL	124&145 CHANDLER ST., BUFFALO, NY	06/29/17 13:20	06/30/17
L1722530-07	SB7 (1-5')	SOIL	124&145 CHANDLER ST., BUFFALO, NY	06/29/17 13:40	06/30/17
L1722530-08	SB9 (0-4')	SOIL	124&145 CHANDLER ST., BUFFALO, NY	06/29/17 14:20	06/30/17
L1722530-09	SB11 (0-2.5')	SOIL	124&145 CHANDLER ST., BUFFALO, NY	06/29/17 15:00	06/30/17

**Project Name:** PH. II ESA  
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**Lab Number:** L1722530  
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### 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.

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### 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

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

#### Semivolatile Organics

L1722530-02: The sample has elevated detection limits due to the dilution required by the sample matrix.

L1722530-06: The sample has elevated detection limits due to the dilution required by the matrix interferences encountered during the concentration of the sample and the analytical dilution required by the sample matrix.

L1722530-06: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%) and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

#### Semivolatile Organics by SIM

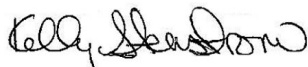
The WG1019446-2 LCS recoveries, associated with L1722530-01, were outside the individual acceptance criteria for acenaphthene (17%), 2-chloronaphthalene (18%), fluoranthene (20%), hexachlorobutadiene (18%), naphthalene (15%), benzo(a)anthracene (22%), benzo(a)pyrene (34%), benzo(b)fluoranthene (34%), benzo(k)fluoranthene (34%), chrysene (22%), acenaphthylene (18%), anthracene (18%), fluorene (19%), phenanthrene (17%), pyrene (20%), 2-methylnaphthalene (16%), hexachlorobenzene (21%) and hexachloroethane (15%); however, re-extraction could not be performed due to lack of additional sample.

#### Total Metals

L1722530-03 through -06, -08, and -09: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 07/10/17

# ORGANICS

# VOLATILES

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-01  
 Client ID: SB9  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 15:45  
 Date Received: 06/30/17  
 Field Prep: Not Specified

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/06/17 16:04  
 Analyst: NL

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.16	J	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
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

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-01

Date Collected: 06/29/17 15:45

Client ID: SB9

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	26		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	5.4		ug/l	5.0	1.9	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
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	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
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
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	99		70-130



Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-04  
 Client ID: SB3 (1-5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 09:50  
 Date Received: 06/30/17  
 Field Prep: Not Specified

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/09/17 19:30  
 Analyst: JC  
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.32	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.42	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.36	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.50	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.42	1
Bromodichloromethane	ND		ug/kg	1.2	0.37	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
Bromoform	ND		ug/kg	4.8	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.36	1
Benzene	ND		ug/kg	1.2	0.23	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	0.30	J	ug/kg	1.2	0.20	1
Chloromethane	ND		ug/kg	6.0	0.53	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	ND		ug/kg	2.4	0.38	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.45	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.29	1
Trichloroethene	ND		ug/kg	1.2	0.36	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	0.22	1

Project Name: PH. II ESA

Lab Number: L1722530

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## SAMPLE RESULTS

Lab ID: L1722530-04

Date Collected: 06/29/17 09:50

Client ID: SB3 (1-5')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.41	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.60	1
Acetone	64		ug/kg	12	2.8	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	13		ug/kg	12	0.83	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
2-Hexanone	ND		ug/kg	12	0.80	1
Bromochloromethane	ND		ug/kg	6.0	0.43	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.24	1
n-Butylbenzene	ND		ug/kg	1.2	0.28	1
sec-Butylbenzene	ND		ug/kg	1.2	0.26	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.48	1
Isopropylbenzene	ND		ug/kg	1.2	0.23	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	0.47	J	ug/kg	6.0	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	0.19	1
1,2,4-Trimethylbenzene	0.22	J	ug/kg	6.0	0.22	1
Methyl Acetate	ND		ug/kg	24	0.56	1
Cyclohexane	ND		ug/kg	24	0.52	1
1,4-Dioxane	ND		ug/kg	48	17.	1
Freon-113	ND		ug/kg	24	0.62	1
Methyl cyclohexane	ND		ug/kg	4.8	0.29	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	108		70-130

Project Name: PH. II ESA

Lab Number: L1722530

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## SAMPLE RESULTS

Lab ID: L1722530-05  
 Client ID: SB5 (0-4')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 11:05  
 Date Received: 06/30/17  
 Field Prep: Not Specified

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/09/17 11:50  
 Analyst: JC  
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.31	1
Chloroform	ND		ug/kg	1.7	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.40	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.2	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.36	1
Tetrachloroethene	ND		ug/kg	1.2	0.35	1
Chlorobenzene	ND		ug/kg	1.2	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.40	1
Bromodichloromethane	ND		ug/kg	1.2	0.36	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.27	1
Bromoform	ND		ug/kg	4.6	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.34	1
Benzene	ND		ug/kg	1.2	0.22	1
Toluene	0.25	J	ug/kg	1.7	0.22	1
Ethylbenzene	1.2		ug/kg	1.2	0.20	1
Chloromethane	ND		ug/kg	5.8	0.50	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.36	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.43	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.28	1
Trichloroethene	ND		ug/kg	1.2	0.35	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.21	1

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

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## SAMPLE RESULTS

Lab ID: L1722530-05

Date Collected: 06/29/17 11:05

Client ID: SB5 (0-4')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.18	1
p/m-Xylene	0.78	J	ug/kg	2.3	0.40	1
o-Xylene	ND		ug/kg	2.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.40	1
Styrene	ND		ug/kg	2.3	0.46	1
Dichlorodifluoromethane	ND		ug/kg	12	0.58	1
Acetone	3.1	J	ug/kg	12	2.6	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.80	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
2-Hexanone	ND		ug/kg	12	0.77	1
Bromochloromethane	ND		ug/kg	5.8	0.41	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.23	1
n-Butylbenzene	0.37	J	ug/kg	1.2	0.26	1
sec-Butylbenzene	ND		ug/kg	1.2	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.46	1
Isopropylbenzene	ND		ug/kg	1.2	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.23	1
Naphthalene	1.6	J	ug/kg	5.8	0.16	1
n-Propylbenzene	0.73	J	ug/kg	1.2	0.25	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.25	1
1,3,5-Trimethylbenzene	0.52	J	ug/kg	5.8	0.19	1
1,2,4-Trimethylbenzene	1.1	J	ug/kg	5.8	0.22	1
Methyl Acetate	ND		ug/kg	23	0.54	1
Cyclohexane	ND		ug/kg	23	0.50	1
1,4-Dioxane	ND		ug/kg	46	17.	1
Freon-113	ND		ug/kg	23	0.59	1
Methyl cyclohexane	0.41	J	ug/kg	4.6	0.28	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-06  
 Client ID: SB6 (0-2')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 13:20  
 Date Received: 06/30/17  
 Field Prep: Not Specified

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/07/17 15:00  
 Analyst: JC  
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.33	1
Chloroform	ND		ug/kg	1.8	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.43	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.39	1
Tetrachloroethene	ND		ug/kg	1.2	0.37	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.52	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.43	1
Bromodichloromethane	ND		ug/kg	1.2	0.38	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
Bromoform	ND		ug/kg	5.0	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Benzene	ND		ug/kg	1.2	0.24	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	0.46	J	ug/kg	1.2	0.21	1
Chloromethane	ND		ug/kg	6.2	0.54	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.39	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.46	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.30	1
Trichloroethene	ND		ug/kg	1.2	0.37	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.22	1

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-06

Date Collected: 06/29/17 13:20

Client ID: SB6 (0-2')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.5	0.19	1
p/m-Xylene	ND		ug/kg	2.5	0.43	1
o-Xylene	ND		ug/kg	2.5	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.42	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.62	1
Acetone	4.9	J	ug/kg	12	2.8	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.85	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
2-Hexanone	ND		ug/kg	12	0.82	1
Bromochloromethane	ND		ug/kg	6.2	0.44	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.25	1
n-Butylbenzene	ND		ug/kg	1.2	0.28	1
sec-Butylbenzene	ND		ug/kg	1.2	0.27	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.24	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.25	1
Naphthalene	ND		ug/kg	6.2	0.17	1
n-Propylbenzene	ND		ug/kg	1.2	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.23	1
Methyl Acetate	ND		ug/kg	25	0.57	1
Cyclohexane	ND		ug/kg	25	0.54	1
1,4-Dioxane	ND		ug/kg	50	18.	1
Freon-113	ND		ug/kg	25	0.64	1
Methyl cyclohexane	0.37	J	ug/kg	5.0	0.30	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	109		70-130

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-07  
 Client ID: SB7 (1-5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 13:40  
 Date Received: 06/30/17  
 Field Prep: Not Specified

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/09/17 12:17  
 Analyst: JC  
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	13	2.1	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.35	1
Chloroform	ND		ug/kg	2.0	0.48	1
Carbon tetrachloride	ND		ug/kg	1.3	0.45	1
1,2-Dichloropropane	ND		ug/kg	4.6	0.30	1
Dibromochloromethane	ND		ug/kg	1.3	0.23	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.41	1
Tetrachloroethene	ND		ug/kg	1.3	0.39	1
Chlorobenzene	ND		ug/kg	1.3	0.45	1
Trichlorofluoromethane	ND		ug/kg	6.5	0.54	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.46	1
Bromodichloromethane	ND		ug/kg	1.3	0.40	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.30	1
Bromoform	ND		ug/kg	5.2	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.39	1
Benzene	ND		ug/kg	1.3	0.25	1
Toluene	0.25	J	ug/kg	2.0	0.25	1
Ethylbenzene	7.0		ug/kg	1.3	0.22	1
Chloromethane	1.1	J	ug/kg	6.5	0.57	1
Bromomethane	0.81	J	ug/kg	2.6	0.44	1
Vinyl chloride	ND		ug/kg	2.6	0.41	1
Chloroethane	ND		ug/kg	2.6	0.41	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.48	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.31	1
Trichloroethene	ND		ug/kg	1.3	0.39	1
1,2-Dichlorobenzene	ND		ug/kg	6.5	0.24	1
1,3-Dichlorobenzene	ND		ug/kg	6.5	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	6.5	0.24	1

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-07

Date Collected: 06/29/17 13:40

Client ID: SB7 (1-5')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.6	0.20	1
p/m-Xylene	18		ug/kg	2.6	0.46	1
o-Xylene	17		ug/kg	2.6	0.44	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.44	1
Styrene	ND		ug/kg	2.6	0.52	1
Dichlorodifluoromethane	ND		ug/kg	13	0.65	1
Acetone	91		ug/kg	13	3.0	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	13		ug/kg	13	0.90	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.32	1
2-Hexanone	ND		ug/kg	13	0.87	1
Bromochloromethane	ND		ug/kg	6.5	0.46	1
1,2-Dibromoethane	ND		ug/kg	5.2	0.26	1
n-Butylbenzene	ND		ug/kg	1.3	0.30	1
sec-Butylbenzene	ND		ug/kg	1.3	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.5	0.51	1
Isopropylbenzene	ND		ug/kg	1.3	0.25	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.26	1
Naphthalene	6.2	J	ug/kg	6.5	0.18	1
n-Propylbenzene	0.41	J	ug/kg	1.3	0.28	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.5	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.5	0.28	1
1,3,5-Trimethylbenzene	0.23	J	ug/kg	6.5	0.21	1
1,2,4-Trimethylbenzene	0.48	J	ug/kg	6.5	0.24	1
Methyl Acetate	ND		ug/kg	26	0.60	1
Cyclohexane	ND		ug/kg	26	0.56	1
1,4-Dioxane	ND		ug/kg	52	19.	1
Freon-113	ND		ug/kg	26	0.67	1
Methyl cyclohexane	0.33	J	ug/kg	5.2	0.31	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130



Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 07/06/17 10:53  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1020223-5					
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
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
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 07/06/17 10:53  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1020223-5					
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
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
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
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
1,2-Dibromoethane	ND		ug/l	2.0	0.65
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	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
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/06/17 10:53  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1020223-5					
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	97		70-130

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 07/09/17 10:45  
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1020841-10					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	1.1	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 07/09/17 10:45  
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1020841-10					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
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
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	3.9	J	ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
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
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
Methyl Acetate	ND		ug/kg	20	0.46
Cyclohexane	ND		ug/kg	20	0.43
1,4-Dioxane	ND		ug/kg	40	14.
Freon-113	ND		ug/kg	20	0.51

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/09/17 10:45  
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1020841-10					
Methyl cyclohexane	ND		ug/kg	4.0	0.24

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 07/07/17 11:23  
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1020841-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	0.57	J	ug/kg	5.0	0.44
Bromomethane	1.7	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22

**Project Name:** PH. II ESA  
**Project Number:** E1641

**Lab Number:** L1722530  
**Report Date:** 07/10/17

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/07/17 11:23  
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1020841-5					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
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
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
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
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
Methyl Acetate	ND		ug/kg	20	0.46
Cyclohexane	ND		ug/kg	20	0.43
1,4-Dioxane	ND		ug/kg	40	14.
Freon-113	ND		ug/kg	20	0.51



Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/07/17 11:23  
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1020841-5					
Methyl cyclohexane	ND		ug/kg	4.0	0.24

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	108		70-130

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 07/09/17 10:53  
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05,07 Batch: WG1021016-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 07/09/17 10:53  
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05,07 Batch: WG1021016-5					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
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
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	2.7	J	ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
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
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
Methyl Acetate	ND		ug/kg	20	0.46
Cyclohexane	ND		ug/kg	20	0.43
1,4-Dioxane	ND		ug/kg	40	14.
Freon-113	ND		ug/kg	20	0.51

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/09/17 10:53  
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05,07 Batch: WG1021016-5					
Methyl cyclohexane	ND		ug/kg	4.0	0.24

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	98		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

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: WG1020223-3 WG1020223-4								
Methylene chloride	89		96		70-130	8		20
1,1-Dichloroethane	93		96		70-130	3		20
Chloroform	93		96		70-130	3		20
Carbon tetrachloride	91		93		63-132	2		20
1,2-Dichloropropane	94		97		70-130	3		20
Dibromochloromethane	87		91		63-130	4		20
1,1,2-Trichloroethane	88		93		70-130	6		20
Tetrachloroethene	97		96		70-130	1		20
Chlorobenzene	92		93		75-130	1		20
Trichlorofluoromethane	90		94		62-150	4		20
1,2-Dichloroethane	92		96		70-130	4		20
1,1,1-Trichloroethane	93		95		67-130	2		20
Bromodichloromethane	92		96		67-130	4		20
trans-1,3-Dichloropropene	78		82		70-130	5		20
cis-1,3-Dichloropropene	92		95		70-130	3		20
Bromoform	79		87		54-136	10		20
1,1,2,2-Tetrachloroethane	82		89		67-130	8		20
Benzene	93		95		70-130	2		20
Toluene	94		94		70-130	0		20
Ethylbenzene	93		92		70-130	1		20
Chloromethane	90		93		64-130	3		20
Bromomethane	74		84		39-139	13		20
Vinyl chloride	90		96		55-140	6		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1020223-3 WG1020223-4								
Chloroethane	97		100		55-138	3		20
1,1-Dichloroethene	91		95		61-145	4		20
trans-1,2-Dichloroethene	92		95		70-130	3		20
Trichloroethene	95		96		70-130	1		20
1,2-Dichlorobenzene	89		93		70-130	4		20
1,3-Dichlorobenzene	92		95		70-130	3		20
1,4-Dichlorobenzene	89		92		70-130	3		20
Methyl tert butyl ether	87		96		63-130	10		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	96		96		70-130	0		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	88		92		36-147	4		20
Acetone	97		110		58-148	13		20
Carbon disulfide	91		95		51-130	4		20
2-Butanone	100		100		63-138	0		20
4-Methyl-2-pentanone	77		84		59-130	9		20
2-Hexanone	76		82		57-130	8		20
Bromochloromethane	95		100		70-130	5		20
1,2-Dibromoethane	90		95		70-130	5		20
n-Butylbenzene	93		95		53-136	2		20
sec-Butylbenzene	93		93		70-130	0		20
1,2-Dibromo-3-chloropropane	67		76		41-144	13		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Project Number: E1641

Lab Number: L1722530

Report Date: 07/10/17

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: WG1020223-3 WG1020223-4								
Isopropylbenzene	93		93		70-130	0		20
p-Isopropyltoluene	94		95		70-130	1		20
Naphthalene	130		96		70-130	30	Q	20
n-Propylbenzene	92		91		69-130	1		20
1,2,3-Trichlorobenzene	65	Q	90		70-130	32	Q	20
1,2,4-Trichlorobenzene	74		86		70-130	15		20
1,3,5-Trimethylbenzene	93		94		64-130	1		20
1,2,4-Trimethylbenzene	95		95		70-130	0		20
Methyl Acetate	82		90		70-130	9		20
Cyclohexane	92		93		70-130	1		20
1,4-Dioxane	90		108		56-162	18		20
Freon-113	89		95		70-130	7		20
Methyl cyclohexane	94		94		70-130	0		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	99		102		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1020841-3 WG1020841-4								
Methylene chloride	94		102		70-130	8		30
1,1-Dichloroethane	107		116		70-130	8		30
Chloroform	110		118		70-130	7		30
Carbon tetrachloride	<b>138</b>	Q	<b>141</b>	Q	70-130	2		30
1,2-Dichloropropane	113		102		70-130	10		30
Dibromochloromethane	105		105		70-130	0		30
1,1,2-Trichloroethane	96		96		70-130	0		30
Tetrachloroethene	110		112		70-130	2		30
Chlorobenzene	102		103		70-130	1		30
Trichlorofluoromethane	136		138		70-139	1		30
1,2-Dichloroethane	121		126		70-130	4		30
1,1,1-Trichloroethane	130		<b>135</b>	Q	70-130	4		30
Bromodichloromethane	118		117		70-130	1		30
trans-1,3-Dichloropropene	106		105		70-130	1		30
cis-1,3-Dichloropropene	103		103		70-130	0		30
Bromoform	103		102		70-130	1		30
1,1,2,2-Tetrachloroethane	95		91		70-130	4		30
Benzene	106		107		70-130	1		30
Toluene	104		103		70-130	1		30
Ethylbenzene	106		106		70-130	0		30
Chloromethane	121		129		52-130	6		30
Bromomethane	120		121		57-147	1		30
Vinyl chloride	127		<b>133</b>	Q	67-130	5		30



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1020841-3 WG1020841-4								
Chloroethane	109		110		50-151	1		30
1,1-Dichloroethene	94		102		65-135	8		30
trans-1,2-Dichloroethene	103		109		70-130	6		30
Trichloroethene	113		116		70-130	3		30
1,2-Dichlorobenzene	98		101		70-130	3		30
1,3-Dichlorobenzene	99		101		70-130	2		30
1,4-Dichlorobenzene	97		103		70-130	6		30
Methyl tert butyl ether	96		93		66-130	3		30
p/m-Xylene	106		107		70-130	1		30
o-Xylene	102		103		70-130	1		30
cis-1,2-Dichloroethene	106		108		70-130	2		30
Styrene	102		101		70-130	1		30
Dichlorodifluoromethane	136		140		30-146	3		30
Acetone	113		123		54-140	8		30
Carbon disulfide	68		73		59-130	7		30
2-Butanone	117		107		70-130	9		30
4-Methyl-2-pentanone	101		97		70-130	4		30
2-Hexanone	102		104		70-130	2		30
Bromochloromethane	106		104		70-130	2		30
1,2-Dibromoethane	98		98		70-130	0		30
n-Butylbenzene	107		111		70-130	4		30
sec-Butylbenzene	112		116		70-130	4		30
1,2-Dibromo-3-chloropropane	88		89		68-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Project Number: E1641

Lab Number: L1722530

Report Date: 07/10/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1020841-3 WG1020841-4								
Isopropylbenzene	114		115		70-130	1		30
p-Isopropyltoluene	110		110		70-130	0		30
Naphthalene	97		98		70-130	1		30
n-Propylbenzene	112		113		70-130	1		30
1,2,3-Trichlorobenzene	102		105		70-130	3		30
1,2,4-Trichlorobenzene	103		105		70-130	2		30
1,3,5-Trimethylbenzene	112		113		70-130	1		30
1,2,4-Trimethylbenzene	109		108		70-130	1		30
Methyl Acetate	107		113		51-146	5		30
Cyclohexane	130		136		59-142	5		30
1,4-Dioxane	113		103		65-136	9		30
Freon-113	109		123		50-139	12		30
Methyl cyclohexane	120		121		70-130	1		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	120		117		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	111		109		70-130
Dibromofluoromethane	104		112		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1020841-8 WG1020841-9								
Methylene chloride	99		97		70-130	2		30
1,1-Dichloroethane	108		109		70-130	1		30
Chloroform	110		110		70-130	0		30
Carbon tetrachloride	125		125		70-130	0		30
1,2-Dichloropropane	110		111		70-130	1		30
Dibromochloromethane	101		100		70-130	1		30
1,1,2-Trichloroethane	98		95		70-130	3		30
Tetrachloroethene	107		103		70-130	4		30
Chlorobenzene	100		99		70-130	1		30
Trichlorofluoromethane	119		120		70-139	1		30
1,2-Dichloroethane	112		112		70-130	0		30
1,1,1-Trichloroethane	118		119		70-130	1		30
Bromodichloromethane	113		113		70-130	0		30
trans-1,3-Dichloropropene	103		102		70-130	1		30
cis-1,3-Dichloropropene	102		101		70-130	1		30
Bromoform	96		96		70-130	0		30
1,1,2,2-Tetrachloroethane	95		94		70-130	1		30
Benzene	108		108		70-130	0		30
Toluene	106		101		70-130	5		30
Ethylbenzene	103		103		70-130	0		30
Chloromethane	107		116		52-130	8		30
Bromomethane	113		110		57-147	3		30
Vinyl chloride	122		123		67-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1020841-8 WG1020841-9								
Chloroethane	104		106		50-151	2		30
1,1-Dichloroethene	96		94		65-135	2		30
trans-1,2-Dichloroethene	103		105		70-130	2		30
Trichloroethene	110		110		70-130	0		30
1,2-Dichlorobenzene	98		94		70-130	4		30
1,3-Dichlorobenzene	100		99		70-130	1		30
1,4-Dichlorobenzene	95		96		70-130	1		30
Methyl tert butyl ether	94		94		66-130	0		30
p/m-Xylene	102		102		70-130	0		30
o-Xylene	100		100		70-130	0		30
cis-1,2-Dichloroethene	101		103		70-130	2		30
Styrene	100		99		70-130	1		30
Dichlorodifluoromethane	121		123		30-146	2		30
Acetone	128		121		54-140	6		30
Carbon disulfide	74		69		59-130	7		30
2-Butanone	105		116		70-130	10		30
4-Methyl-2-pentanone	101		100		70-130	1		30
2-Hexanone	107		101		70-130	6		30
Bromochloromethane	103		98		70-130	5		30
1,2-Dibromoethane	98		96		70-130	2		30
n-Butylbenzene	101		107		70-130	6		30
sec-Butylbenzene	102		101		70-130	1		30
1,2-Dibromo-3-chloropropane	90		88		68-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1020841-8 WG1020841-9								
Isopropylbenzene	103		105		70-130	2		30
p-Isopropyltoluene	106		106		70-130	0		30
Naphthalene	93		93		70-130	0		30
n-Propylbenzene	103		106		70-130	3		30
1,2,3-Trichlorobenzene	97		100		70-130	3		30
1,2,4-Trichlorobenzene	98		101		70-130	3		30
1,3,5-Trimethylbenzene	105		106		70-130	1		30
1,2,4-Trimethylbenzene	104		103		70-130	1		30
Methyl Acetate	102		102		51-146	0		30
Cyclohexane	127		126		59-142	1		30
1,4-Dioxane	108		99		65-136	9		30
Freon-113	117		109		50-139	7		30
Methyl cyclohexane	121		121		70-130	0		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	106		107		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	100		105		70-130
Dibromofluoromethane	104		102		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05,07 Batch: WG1021016-3 WG1021016-4								
Methylene chloride	100		100		70-130	0		30
1,1-Dichloroethane	100		100		70-130	0		30
Chloroform	96		99		70-130	3		30
Carbon tetrachloride	89		91		70-130	2		30
1,2-Dichloropropane	101		103		70-130	2		30
Dibromochloromethane	94		101		70-130	7		30
1,1,2-Trichloroethane	108		109		70-130	1		30
Tetrachloroethene	104		107		70-130	3		30
Chlorobenzene	102		103		70-130	1		30
Trichlorofluoromethane	140	Q	142	Q	70-139	1		30
1,2-Dichloroethane	96		100		70-130	4		30
1,1,1-Trichloroethane	94		97		70-130	3		30
Bromodichloromethane	92		95		70-130	3		30
trans-1,3-Dichloropropene	91		98		70-130	7		30
cis-1,3-Dichloropropene	92		96		70-130	4		30
Bromoform	84		90		70-130	7		30
1,1,2,2-Tetrachloroethane	116		119		70-130	3		30
Benzene	100		103		70-130	3		30
Toluene	105		105		70-130	0		30
Ethylbenzene	107		110		70-130	3		30
Chloromethane	68		71		52-130	4		30
Bromomethane	104		102		57-147	2		30
Vinyl chloride	100		102		67-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05,07 Batch: WG1021016-3 WG1021016-4								
Chloroethane	150		157	Q	50-151	5		30
1,1-Dichloroethene	125		119		65-135	5		30
trans-1,2-Dichloroethene	93		94		70-130	1		30
Trichloroethene	100		101		70-130	1		30
1,2-Dichlorobenzene	102		104		70-130	2		30
1,3-Dichlorobenzene	105		105		70-130	0		30
1,4-Dichlorobenzene	102		102		70-130	0		30
Methyl tert butyl ether	86		91		66-130	6		30
p/m-Xylene	108		108		70-130	0		30
o-Xylene	102		103		70-130	1		30
cis-1,2-Dichloroethene	91		93		70-130	2		30
Styrene	99		102		70-130	3		30
Dichlorodifluoromethane	54		53		30-146	2		30
Acetone	91		100		54-140	9		30
Carbon disulfide	87		88		59-130	1		30
2-Butanone	96		99		70-130	3		30
4-Methyl-2-pentanone	94		100		70-130	6		30
2-Hexanone	89		95		70-130	7		30
Bromochloromethane	93		95		70-130	2		30
1,2-Dibromoethane	98		103		70-130	5		30
n-Butylbenzene	118		120		70-130	2		30
sec-Butylbenzene	116		117		70-130	1		30
1,2-Dibromo-3-chloropropane	80		93		68-130	15		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** PH. II ESA  
**Project Number:** E1641

**Lab Number:** L1722530  
**Report Date:** 07/10/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05,07 Batch: WG1021016-3 WG1021016-4								
Isopropylbenzene	106		107		70-130	1		30
p-Isopropyltoluene	111		112		70-130	1		30
Naphthalene	94		100		70-130	6		30
n-Propylbenzene	111		112		70-130	1		30
1,2,3-Trichlorobenzene	97		100		70-130	3		30
1,2,4-Trichlorobenzene	97		97		70-130	0		30
1,3,5-Trimethylbenzene	109		109		70-130	0		30
1,2,4-Trimethylbenzene	106		107		70-130	1		30
Methyl Acetate	97		102		51-146	5		30
Cyclohexane	109		110		59-142	1		30
1,4-Dioxane	106		113		65-136	6		30
Freon-113	126		127		50-139	1		30
Methyl cyclohexane	104		105		70-130	1		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4			107		70-130
Toluene-d8			106		70-130
4-Bromofluorobenzene			94		70-130
Dibromofluoromethane			98		70-130



# SEMIVOLATILES

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-01  
 Client ID: SB9  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY  
 Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 07/05/17 13:45  
 Analyst: RC

Date Collected: 06/29/17 15:45  
 Date Received: 06/30/17  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 07/03/17 13:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Bis(2-chloroethyl)ether	ND		ug/l	1.9	0.64	1
3,3'-Dichlorobenzidine	ND		ug/l	4.8	1.3	1
2,4-Dinitrotoluene	ND		ug/l	4.8	0.82	1
2,6-Dinitrotoluene	ND		ug/l	4.8	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	1.9	0.60	1
4-Bromophenyl phenyl ether	ND		ug/l	1.9	0.70	1
Bis(2-chloroisopropyl)ether	ND		ug/l	1.9	0.67	1
Bis(2-chloroethoxy)methane	ND		ug/l	4.8	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	19	7.6	1
Isophorone	ND		ug/l	4.8	0.58	1
Nitrobenzene	ND		ug/l	1.9	0.73	1
NDPA/DPA	ND		ug/l	1.9	0.62	1
n-Nitrosodi-n-propylamine	ND		ug/l	4.8	0.68	1
Bis(2-ethylhexyl)phthalate	5.7		ug/l	2.9	0.88	1
Butyl benzyl phthalate	ND		ug/l	4.8	1.2	1
Di-n-butylphthalate	ND		ug/l	4.8	0.66	1
Di-n-octylphthalate	ND		ug/l	4.8	1.1	1
Diethyl phthalate	1.5	J	ug/l	4.8	0.60	1
Dimethyl phthalate	ND		ug/l	4.8	0.63	1
Biphenyl	ND		ug/l	1.9	0.73	1
4-Chloroaniline	ND		ug/l	4.8	0.61	1
2-Nitroaniline	ND		ug/l	4.8	1.1	1
3-Nitroaniline	ND		ug/l	4.8	1.2	1
4-Nitroaniline	ND		ug/l	4.8	1.2	1
Dibenzofuran	ND		ug/l	1.9	0.63	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	9.6	0.64	1
Acetophenone	ND		ug/l	4.8	0.82	1
2,4,6-Trichlorophenol	ND		ug/l	4.8	0.66	1
p-Chloro-m-cresol	ND		ug/l	1.9	0.60	1
2-Chlorophenol	ND		ug/l	1.9	0.61	1

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-01

Date Collected: 06/29/17 15:45

Client ID: SB9

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4-Dichlorophenol	ND		ug/l	4.8	0.74	1
2,4-Dimethylphenol	ND		ug/l	4.8	1.6	1
2-Nitrophenol	ND		ug/l	9.6	1.5	1
4-Nitrophenol	ND		ug/l	9.6	1.7	1
2,4-Dinitrophenol	ND		ug/l	19	5.3	1
4,6-Dinitro-o-cresol	ND		ug/l	9.6	2.0	1
Phenol	ND		ug/l	4.8	1.8	1
3-Methylphenol/4-Methylphenol	ND		ug/l	4.8	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	4.8	0.69	1
Carbazole	ND		ug/l	1.9	0.60	1
Atrazine	ND		ug/l	9.6	1.8	1
Benzaldehyde	ND		ug/l	4.8	1.0	1
Caprolactam	ND		ug/l	9.6	3.4	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	4.8	0.90	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	49		23-120
2-Fluorobiphenyl	43		15-120
2,4,6-Tribromophenol	42		10-120
4-Terphenyl-d14	21	Q	41-149

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-01  
 Client ID: SB9  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY  
 Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 07/08/17 19:05  
 Analyst: KL

Date Collected: 06/29/17 15:45  
 Date Received: 06/30/17  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 07/03/17 14:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	0.23		ug/l	0.10	0.03	1
2-Chloronaphthalene	ND		ug/l	0.19	0.03	1
Fluoranthene	7.5		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.48	0.04	1
Naphthalene	0.30		ug/l	0.10	0.04	1
Benzo(a)anthracene	5.4		ug/l	0.10	0.02	1
Benzo(a)pyrene	6.8		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	10		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	3.1		ug/l	0.10	0.04	1
Chrysene	6.7		ug/l	0.10	0.04	1
Acenaphthylene	0.15		ug/l	0.10	0.03	1
Anthracene	0.66		ug/l	0.10	0.03	1
Benzo(ghi)perylene	2.7		ug/l	0.10	0.04	1
Fluorene	0.18		ug/l	0.10	0.04	1
Phenanthrene	2.8		ug/l	0.10	0.01	1
Dibenzo(a,h)anthracene	1.0		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	3.0		ug/l	0.10	0.04	1
Pyrene	8.9		ug/l	0.10	0.04	1
2-Methylnaphthalene	0.46		ug/l	0.10	0.04	1
Pentachlorophenol	ND		ug/l	0.77	0.21	1
Hexachlorobenzene	ND		ug/l	0.77	0.03	1
Hexachloroethane	ND		ug/l	0.77	0.03	1

**Project Name:** PH. II ESA**Lab Number:** L1722530**Project Number:** E1641**Report Date:** 07/10/17**SAMPLE RESULTS**

Lab ID: L1722530-01

Date Collected: 06/29/17 15:45

Client ID: SB9

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	28		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	31		23-120
2-Fluorobiphenyl	35		15-120
2,4,6-Tribromophenol	42		10-120
4-Terphenyl-d14	<b>20</b>	Q	41-149

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-02 D  
 Client ID: SB1 (0-2.5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 09:00  
 Date Received: 06/30/17  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/05/17 23:17

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/07/17 04:17  
 Analyst: KV  
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	65	J	ug/kg	300	39.	2
Hexachlorobenzene	ND		ug/kg	230	42.	2
Bis(2-chloroethyl)ether	ND		ug/kg	340	51.	2
2-Chloronaphthalene	ND		ug/kg	380	38.	2
3,3'-Dichlorobenzidine	ND		ug/kg	380	100	2
2,4-Dinitrotoluene	ND		ug/kg	380	76.	2
2,6-Dinitrotoluene	ND		ug/kg	380	65.	2
Fluoranthene	980		ug/kg	230	43.	2
4-Chlorophenyl phenyl ether	ND		ug/kg	380	40.	2
4-Bromophenyl phenyl ether	ND		ug/kg	380	58.	2
Bis(2-chloroisopropyl)ether	ND		ug/kg	450	65.	2
Bis(2-chloroethoxy)methane	ND		ug/kg	410	38.	2
Hexachlorobutadiene	ND		ug/kg	380	55.	2
Hexachlorocyclopentadiene	ND		ug/kg	1100	340	2
Hexachloroethane	ND		ug/kg	300	61.	2
Isophorone	ND		ug/kg	340	49.	2
Naphthalene	110	J	ug/kg	380	46.	2
Nitrobenzene	ND		ug/kg	340	56.	2
NDPA/DPA	ND		ug/kg	300	43.	2
n-Nitrosodi-n-propylamine	ND		ug/kg	380	58.	2
Bis(2-ethylhexyl)phthalate	ND		ug/kg	380	130	2
Butyl benzyl phthalate	110	J	ug/kg	380	95.	2
Di-n-butylphthalate	ND		ug/kg	380	72.	2
Di-n-octylphthalate	ND		ug/kg	380	130	2
Diethyl phthalate	ND		ug/kg	380	35.	2
Dimethyl phthalate	ND		ug/kg	380	80.	2
Benzo(a)anthracene	560		ug/kg	230	43.	2
Benzo(a)pyrene	430		ug/kg	300	92.	2
Benzo(b)fluoranthene	610		ug/kg	230	64.	2
Benzo(k)fluoranthene	190	J	ug/kg	230	60.	2

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-02 D

Date Collected: 06/29/17 09:00

Client ID: SB1 (0-2.5')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	560		ug/kg	230	39.	2
Acenaphthylene	ND		ug/kg	300	58.	2
Anthracene	160	J	ug/kg	230	74.	2
Benzo(ghi)perylene	280	J	ug/kg	300	44.	2
Fluorene	80	J	ug/kg	380	37.	2
Phenanthrene	780		ug/kg	230	46.	2
Dibenzo(a,h)anthracene	71	J	ug/kg	230	44.	2
Indeno(1,2,3-cd)pyrene	300		ug/kg	300	53.	2
Pyrene	960		ug/kg	230	38.	2
Biphenyl	ND		ug/kg	860	88.	2
4-Chloroaniline	ND		ug/kg	380	69.	2
2-Nitroaniline	ND		ug/kg	380	73.	2
3-Nitroaniline	ND		ug/kg	380	71.	2
4-Nitroaniline	ND		ug/kg	380	160	2
Dibenzofuran	56	J	ug/kg	380	36.	2
2-Methylnaphthalene	110	J	ug/kg	450	46.	2
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	380	40.	2
Acetophenone	ND		ug/kg	380	47.	2
2,4,6-Trichlorophenol	ND		ug/kg	230	72.	2
p-Chloro-m-cresol	ND		ug/kg	380	56.	2
2-Chlorophenol	ND		ug/kg	380	45.	2
2,4-Dichlorophenol	ND		ug/kg	340	61.	2
2,4-Dimethylphenol	ND		ug/kg	380	120	2
2-Nitrophenol	ND		ug/kg	820	140	2
4-Nitrophenol	ND		ug/kg	530	150	2
2,4-Dinitrophenol	ND		ug/kg	1800	180	2
4,6-Dinitro-o-cresol	ND		ug/kg	980	180	2
Pentachlorophenol	ND		ug/kg	300	83.	2
Phenol	ND		ug/kg	380	57.	2
2-Methylphenol	ND		ug/kg	380	59.	2
3-Methylphenol/4-Methylphenol	ND		ug/kg	540	59.	2
2,4,5-Trichlorophenol	ND		ug/kg	380	72.	2
Carbazole	83	J	ug/kg	380	37.	2
Atrazine	ND		ug/kg	300	130	2
Benzaldehyde	ND		ug/kg	500	100	2
Caprolactam	ND		ug/kg	380	120	2
2,3,4,6-Tetrachlorophenol	ND		ug/kg	380	76.	2

**Project Name:** PH. II ESA**Lab Number:** L1722530**Project Number:** E1641**Report Date:** 07/10/17**SAMPLE RESULTS**

Lab ID: L1722530-02 D

Date Collected: 06/29/17 09:00

Client ID: SB1 (0-2.5')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	41		18-120



Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-03  
 Client ID: SB2 (0-2.5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 09:20  
 Date Received: 06/30/17  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/05/17 23:17

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/07/17 02:06  
 Analyst: KV  
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	90	J	ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	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	1900		ug/kg	120	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	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	280		ug/kg	210	25.	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	72.	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
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	1100		ug/kg	120	24.	1
Benzo(a)pyrene	1200		ug/kg	170	51.	1
Benzo(b)fluoranthene	1600		ug/kg	120	35.	1
Benzo(k)fluoranthene	550		ug/kg	120	33.	1

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-03

Date Collected: 06/29/17 09:20

Client ID: SB2 (0-2.5')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	1100		ug/kg	120	22.	1
Acenaphthylene	34	J	ug/kg	170	32.	1
Anthracene	380		ug/kg	120	41.	1
Benzo(ghi)perylene	660		ug/kg	170	24.	1
Fluorene	140	J	ug/kg	210	20.	1
Phenanthrene	1400		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	190		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	780		ug/kg	170	29.	1
Pyrene	1500		ug/kg	120	21.	1
Biphenyl	50	J	ug/kg	480	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	130	J	ug/kg	210	20.	1
2-Methylnaphthalene	320		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	120	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	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	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
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Carbazole	140	J	ug/kg	210	20.	1
Atrazine	ND		ug/kg	170	73.	1
Benzaldehyde	ND		ug/kg	280	56.	1
Caprolactam	ND		ug/kg	210	64.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	210	42.	1

**Project Name:** PH. II ESA**Lab Number:** L1722530**Project Number:** E1641**Report Date:** 07/10/17**SAMPLE RESULTS**

Lab ID: L1722530-03

Date Collected: 06/29/17 09:20

Client ID: SB2 (0-2.5')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	50		18-120

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-04  
 Client ID: SB3 (1-5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 09:50  
 Date Received: 06/30/17  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/05/17 23:17

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/07/17 01:41  
 Analyst: KV  
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	83	J	ug/kg	150	20.	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
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	1500		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	24.	1
Naphthalene	140	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	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	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	64.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	620		ug/kg	110	21.	1
Benzo(a)pyrene	530		ug/kg	150	46.	1
Benzo(b)fluoranthene	720		ug/kg	110	32.	1
Benzo(k)fluoranthene	220		ug/kg	110	30.	1

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-04

Date Collected: 06/29/17 09:50

Client ID: SB3 (1-5')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	590		ug/kg	110	20.	1
Acenaphthylene	67	J	ug/kg	150	29.	1
Anthracene	310		ug/kg	110	37.	1
Benzo(ghi)perylene	320		ug/kg	150	22.	1
Fluorene	150	J	ug/kg	190	18.	1
Phenanthrene	1200		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	91	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	360		ug/kg	150	26.	1
Pyrene	1200		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	110	J	ug/kg	190	18.	1
2-Methylnaphthalene	110	J	ug/kg	230	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	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	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	140	J	ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	66.	1
Benzaldehyde	ND		ug/kg	250	51.	1
Caprolactam	ND		ug/kg	190	58.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

**Project Name:** PH. II ESA**Lab Number:** L1722530**Project Number:** E1641**Report Date:** 07/10/17**SAMPLE RESULTS**

Lab ID: L1722530-04

Date Collected: 06/29/17 09:50

Client ID: SB3 (1-5')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	60		18-120

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-05  
 Client ID: SB5 (0-4')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 11:05  
 Date Received: 06/30/17  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/05/17 23:17

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/07/17 02:33  
 Analyst: KV  
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	60	J	ug/kg	150	20.	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
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	1400		ug/kg	120	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	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	100	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	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
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	810		ug/kg	120	22.	1
Benzo(a)pyrene	820		ug/kg	150	47.	1
Benzo(b)fluoranthene	1100		ug/kg	120	32.	1
Benzo(k)fluoranthene	320		ug/kg	120	31.	1

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-05

Date Collected: 06/29/17 11:05

Client ID: SB5 (0-4')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	820		ug/kg	120	20.	1
Acenaphthylene	42	J	ug/kg	150	30.	1
Anthracene	170		ug/kg	120	37.	1
Benzo(ghi)perylene	490		ug/kg	150	22.	1
Fluorene	79	J	ug/kg	190	19.	1
Phenanthrene	830		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	170		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	510		ug/kg	150	27.	1
Pyrene	1200		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	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	80.	1
Dibenzofuran	57	J	ug/kg	190	18.	1
2-Methylnaphthalene	120	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	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	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
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Carbazole	110	J	ug/kg	190	19.	1
Atrazine	ND		ug/kg	150	67.	1
Benzaldehyde	ND		ug/kg	250	52.	1
Caprolactam	ND		ug/kg	190	58.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	39.	1



**Project Name:** PH. II ESA**Lab Number:** L1722530**Project Number:** E1641**Report Date:** 07/10/17**SAMPLE RESULTS**

Lab ID: L1722530-05

Date Collected: 06/29/17 11:05

Client ID: SB5 (0-4')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	47		18-120

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-06 D  
 Client ID: SB6 (0-2')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 13:20  
 Date Received: 06/30/17  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/05/17 23:17

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/07/17 04:43  
 Analyst: KV  
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	5100	660	35
Hexachlorobenzene	ND		ug/kg	3800	710	35
Bis(2-chloroethyl)ether	ND		ug/kg	5700	860	35
2-Chloronaphthalene	ND		ug/kg	6300	630	35
3,3'-Dichlorobenzidine	ND		ug/kg	6300	1700	35
2,4-Dinitrotoluene	ND		ug/kg	6300	1300	35
2,6-Dinitrotoluene	ND		ug/kg	6300	1100	35
Fluoranthene	2800	J	ug/kg	3800	730	35
4-Chlorophenyl phenyl ether	ND		ug/kg	6300	680	35
4-Bromophenyl phenyl ether	ND		ug/kg	6300	970	35
Bis(2-chloroisopropyl)ether	ND		ug/kg	7600	1100	35
Bis(2-chloroethoxy)methane	ND		ug/kg	6800	630	35
Hexachlorobutadiene	ND		ug/kg	6300	930	35
Hexachlorocyclopentadiene	ND		ug/kg	18000	5700	35
Hexachloroethane	ND		ug/kg	5100	1000	35
Isophorone	ND		ug/kg	5700	820	35
Naphthalene	ND		ug/kg	6300	770	35
Nitrobenzene	ND		ug/kg	5700	940	35
NDPA/DPA	ND		ug/kg	5100	720	35
n-Nitrosodi-n-propylamine	ND		ug/kg	6300	980	35
Bis(2-ethylhexyl)phthalate	ND		ug/kg	6300	2200	35
Butyl benzyl phthalate	ND		ug/kg	6300	1600	35
Di-n-butylphthalate	ND		ug/kg	6300	1200	35
Di-n-octylphthalate	ND		ug/kg	6300	2200	35
Diethyl phthalate	ND		ug/kg	6300	590	35
Dimethyl phthalate	ND		ug/kg	6300	1300	35
Benzo(a)anthracene	1700	J	ug/kg	3800	710	35
Benzo(a)pyrene	ND		ug/kg	5100	1500	35
Benzo(b)fluoranthene	1800	J	ug/kg	3800	1100	35
Benzo(k)fluoranthene	ND		ug/kg	3800	1000	35

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-06 D

Date Collected: 06/29/17 13:20

Client ID: SB6 (0-2')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	1700	J	ug/kg	3800	660	35
Acenaphthylene	ND		ug/kg	5100	980	35
Anthracene	ND		ug/kg	3800	1200	35
Benzo(ghi)perylene	1200	J	ug/kg	5100	740	35
Fluorene	ND		ug/kg	6300	620	35
Phenanthrene	1500	J	ug/kg	3800	770	35
Dibenzo(a,h)anthracene	ND		ug/kg	3800	730	35
Indeno(1,2,3-cd)pyrene	ND		ug/kg	5100	880	35
Pyrene	2300	J	ug/kg	3800	630	35
Biphenyl	ND		ug/kg	14000	1500	35
4-Chloroaniline	ND		ug/kg	6300	1200	35
2-Nitroaniline	ND		ug/kg	6300	1200	35
3-Nitroaniline	ND		ug/kg	6300	1200	35
4-Nitroaniline	ND		ug/kg	6300	2600	35
Dibenzofuran	ND		ug/kg	6300	600	35
2-Methylnaphthalene	ND		ug/kg	7600	760	35
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	6300	660	35
Acetophenone	ND		ug/kg	6300	780	35
2,4,6-Trichlorophenol	ND		ug/kg	3800	1200	35
p-Chloro-m-cresol	ND		ug/kg	6300	940	35
2-Chlorophenol	ND		ug/kg	6300	750	35
2,4-Dichlorophenol	ND		ug/kg	5700	1000	35
2,4-Dimethylphenol	ND		ug/kg	6300	2100	35
2-Nitrophenol	ND		ug/kg	14000	2400	35
4-Nitrophenol	ND		ug/kg	8900	2600	35
2,4-Dinitrophenol	ND		ug/kg	30000	3000	35
4,6-Dinitro-o-cresol	ND		ug/kg	16000	3000	35
Pentachlorophenol	ND		ug/kg	5100	1400	35
Phenol	ND		ug/kg	6300	960	35
2-Methylphenol	ND		ug/kg	6300	980	35
3-Methylphenol/4-Methylphenol	ND		ug/kg	9100	990	35
2,4,5-Trichlorophenol	ND		ug/kg	6300	1200	35
Carbazole	ND		ug/kg	6300	620	35
Atrazine	ND		ug/kg	5100	2200	35
Benzaldehyde	ND		ug/kg	8400	1700	35
Caprolactam	ND		ug/kg	6300	1900	35
2,3,4,6-Tetrachlorophenol	ND		ug/kg	6300	1300	35

**Project Name:** PH. II ESA**Lab Number:** L1722530**Project Number:** E1641**Report Date:** 07/10/17**SAMPLE RESULTS**

Lab ID: L1722530-06 D

Date Collected: 06/29/17 13:20

Client ID: SB6 (0-2')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	25-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
2,4,6-Tribromophenol	0	Q	10-136
4-Terphenyl-d14	0	Q	18-120

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-07  
 Client ID: SB7 (1-5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 13:40  
 Date Received: 06/30/17  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/05/17 23:17

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/07/17 02:59  
 Analyst: KV  
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	120	J	ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	220	21.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	57.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	2100		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	440		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	74.	1
Butyl benzyl phthalate	ND		ug/kg	220	54.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	73.	1
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	45.	1
Benzo(a)anthracene	780		ug/kg	130	24.	1
Benzo(a)pyrene	660		ug/kg	170	52.	1
Benzo(b)fluoranthene	960		ug/kg	130	36.	1
Benzo(k)fluoranthene	300		ug/kg	130	34.	1

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-07

Date Collected: 06/29/17 13:40

Client ID: SB7 (1-5')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	880		ug/kg	130	22.	1
Acenaphthylene	110	J	ug/kg	170	33.	1
Anthracene	270		ug/kg	130	42.	1
Benzo(ghi)perylene	380		ug/kg	170	25.	1
Fluorene	280		ug/kg	220	21.	1
Phenanthrene	2200		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	100	J	ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	440		ug/kg	170	30.	1
Pyrene	1600		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	220	39.	1
2-Nitroaniline	ND		ug/kg	220	41.	1
3-Nitroaniline	ND		ug/kg	220	40.	1
4-Nitroaniline	ND		ug/kg	220	89.	1
Dibenzofuran	250		ug/kg	220	20.	1
2-Methylnaphthalene	150	J	ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	22.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	220	71.	1
2-Nitrophenol	ND		ug/kg	460	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	220	32.	1
2-Methylphenol	ND		ug/kg	220	33.	1
3-Methylphenol/4-Methylphenol	96	J	ug/kg	310	34.	1
2,4,5-Trichlorophenol	ND		ug/kg	220	41.	1
Carbazole	280		ug/kg	220	21.	1
Atrazine	ND		ug/kg	170	75.	1
Benzaldehyde	ND		ug/kg	280	58.	1
Caprolactam	ND		ug/kg	220	65.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	220	43.	1

**Project Name:** PH. II ESA**Lab Number:** L1722530**Project Number:** E1641**Report Date:** 07/10/17**SAMPLE RESULTS**

Lab ID: L1722530-07

Date Collected: 06/29/17 13:40

Client ID: SB7 (1-5')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	55		18-120

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-08  
 Client ID: SB9 (0-4')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 14:20  
 Date Received: 06/30/17  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/05/17 23:17

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/07/17 03:25  
 Analyst: KV  
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	380		ug/kg	150	20.	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
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	2500		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	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	200		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	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
Diethyl phthalate	38	J	ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	1400		ug/kg	110	22.	1
Benzo(a)pyrene	920		ug/kg	150	47.	1
Benzo(b)fluoranthene	1400		ug/kg	110	32.	1
Benzo(k)fluoranthene	420		ug/kg	110	30.	1



Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-08

Date Collected: 06/29/17 14:20

Client ID: SB9 (0-4')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	1300		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	1000		ug/kg	110	37.	1
Benzo(ghi)perylene	550		ug/kg	150	22.	1
Fluorene	540		ug/kg	190	18.	1
Phenanthrene	3100		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	170		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	580		ug/kg	150	27.	1
Pyrene	1900		ug/kg	110	19.	1
Biphenyl	51	J	ug/kg	440	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	400		ug/kg	190	18.	1
2-Methylnaphthalene	180	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	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	920	89.	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
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Carbazole	410		ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	67.	1
Benzaldehyde	ND		ug/kg	250	52.	1
Caprolactam	ND		ug/kg	190	58.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	39.	1

**Project Name:** PH. II ESA**Lab Number:** L1722530**Project Number:** E1641**Report Date:** 07/10/17**SAMPLE RESULTS**

Lab ID: L1722530-08

Date Collected: 06/29/17 14:20

Client ID: SB9 (0-4')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	43		18-120

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-09  
 Client ID: SB11 (0-2.5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 15:00  
 Date Received: 06/30/17  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/05/17 23:17

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/07/17 03:51  
 Analyst: KV  
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	800		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	41.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	18000	E	ug/kg	120	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	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	230		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	160	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	70.	1
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	43.	1
Benzo(a)anthracene	14000	E	ug/kg	120	23.	1
Benzo(a)pyrene	9100	E	ug/kg	160	50.	1
Benzo(b)fluoranthene	14000	E	ug/kg	120	35.	1
Benzo(k)fluoranthene	3100		ug/kg	120	33.	1

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-09

Date Collected: 06/29/17 15:00

Client ID: SB11 (0-2.5')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	10000	E	ug/kg	120	22.	1
Acenaphthylene	680		ug/kg	160	32.	1
Anthracene	6700		ug/kg	120	40.	1
Benzo(ghi)perylene	4400		ug/kg	160	24.	1
Fluorene	2800		ug/kg	210	20.	1
Phenanthrene	17000	E	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	1500		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	5500		ug/kg	160	29.	1
Pyrene	15000	E	ug/kg	120	20.	1
Biphenyl	110	J	ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	1400		ug/kg	210	20.	1
2-Methylnaphthalene	200	J	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	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	190	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	68.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	99.	1
Pentachlorophenol	ND		ug/kg	160	46.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Carbazole	1300		ug/kg	210	20.	1
Atrazine	ND		ug/kg	160	72.	1
Benzaldehyde	ND		ug/kg	270	56.	1
Caprolactam	ND		ug/kg	210	63.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	210	42.	1

**Project Name:** PH. II ESA**Lab Number:** L1722530**Project Number:** E1641**Report Date:** 07/10/17**SAMPLE RESULTS**

Lab ID: L1722530-09

Date Collected: 06/29/17 15:00

Client ID: SB11 (0-2.5')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	48		18-120

**Project Name:** PH. II ESA**Lab Number:** L1722530**Project Number:** E1641**Report Date:** 07/10/17**SAMPLE RESULTS**

Lab ID: L1722530-09 D  
 Client ID: SB11 (0-2.5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 15:00  
 Date Received: 06/30/17  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/05/17 23:17

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/10/17 13:32  
 Analyst: KV  
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Fluoranthene	39000		ug/kg	1200	240	10
Benzo(a)anthracene	18000		ug/kg	1200	230	10
Benzo(a)pyrene	13000		ug/kg	1600	500	10
Benzo(b)fluoranthene	17000		ug/kg	1200	350	10
Chrysene	16000		ug/kg	1200	220	10
Phenanthrene	33000		ug/kg	1200	250	10
Pyrene	30000		ug/kg	1200	200	10

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 07/03/17 23:01  
 Analyst: ALS

Extraction Method: EPA 3510C  
 Extraction Date: 07/03/17 13:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1019445-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Isophorone	ND		ug/l	5.0	0.60
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63
Dimethyl phthalate	ND		ug/l	5.0	0.65
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
 Analytical Date: 07/03/17 23:01  
 Analyst: ALS

Extraction Method: EPA 3510C  
 Extraction Date: 07/03/17 13:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1019445-1					
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Phenol	ND		ug/l	5.0	1.9
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Carbazole	ND		ug/l	2.0	0.63
Atrazine	ND		ug/l	10	1.8
Benzaldehyde	ND		ug/l	5.0	1.1
Caprolactam	ND		ug/l	10	3.6
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93

Tentatively Identified Compounds

No Tentatively Identified Compounds      ND      ug/l



Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270D  
 Analytical Date: 07/03/17 23:01  
 Analyst: ALS

Extraction Method: EPA 3510C  
 Extraction Date: 07/03/17 13:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1019445-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	112		10-120
4-Terphenyl-d14	94		41-149

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270D-SIM  
 Analytical Date: 07/06/17 09:08  
 Analyst: DV

Extraction Method: EPA 3510C  
 Extraction Date: 07/03/17 14:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1019446-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270D-SIM  
 Analytical Date: 07/06/17 09:08  
 Analyst: DV

Extraction Method: EPA 3510C  
 Extraction Date: 07/03/17 14:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1019446-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		21-120
Phenol-d6	22		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	85		10-120
4-Terphenyl-d14	73		41-149

**Project Name:** PH. II ESA  
**Project Number:** E1641

**Lab Number:** L1722530  
**Report Date:** 07/10/17

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/06/17 23:03  
**Analyst:** KV

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/05/17 23:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-09 Batch: WG1019905-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
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	57.
Diethyl phthalate	ND		ug/kg	170	15.
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.

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 07/06/17 23:03  
 Analyst: KV

Extraction Method: EPA 3546  
 Extraction Date: 07/05/17 23:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-09 Batch: WG1019905-1					
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.
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.

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270D  
 Analytical Date: 07/06/17 23:03  
 Analyst: KV

Extraction Method: EPA 3546  
 Extraction Date: 07/05/17 23:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-09 Batch: WG1019905-1					
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.
Carbazole	ND		ug/kg	170	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
Caprolactam	ND		ug/kg	170	51.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	34.

Tentatively Identified Compounds

No Tentatively Identified Compounds      ND      ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	79		18-120

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

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: WG1019445-2 WG1019445-3								
Bis(2-chloroethyl)ether	75		75		40-140	0		30
3,3'-Dichlorobenzidine	81		87		40-140	7		30
2,4-Dinitrotoluene	145	Q	146	Q	48-143	1		30
2,6-Dinitrotoluene	128		125		40-140	2		30
4-Chlorophenyl phenyl ether	108		107		40-140	1		30
4-Bromophenyl phenyl ether	115		113		40-140	2		30
Bis(2-chloroisopropyl)ether	72		74		40-140	3		30
Bis(2-chloroethoxy)methane	84		85		40-140	1		30
Hexachlorocyclopentadiene	81		83		40-140	2		30
Isophorone	86		87		40-140	1		30
Nitrobenzene	81		84		40-140	4		30
NDPA/DPA	113		111		40-140	2		30
n-Nitrosodi-n-propylamine	80		78		29-132	3		30
Bis(2-ethylhexyl)phthalate	100		102		40-140	2		30
Butyl benzyl phthalate	113		113		40-140	0		30
Di-n-butylphthalate	106		105		40-140	1		30
Di-n-octylphthalate	104		104		40-140	0		30
Diethyl phthalate	114		113		40-140	1		30
Dimethyl phthalate	106		105		40-140	1		30
Biphenyl	97		96		40-140	1		30
4-Chloroaniline	78		70		40-140	11		30
2-Nitroaniline	131		129		52-143	2		30
3-Nitroaniline	114		119		25-145	4		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

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: WG1019445-2 WG1019445-3								
4-Nitroaniline	125		121		51-143	3		30
Dibenzofuran	108		106		40-140	2		30
1,2,4,5-Tetrachlorobenzene	95		98		2-134	3		30
Acetophenone	82		85		39-129	4		30
2,4,6-Trichlorophenol	107		106		30-130	1		30
p-Chloro-m-cresol	97		98	Q	23-97	1		30
2-Chlorophenol	77		81		27-123	5		30
2,4-Dichlorophenol	95		96		30-130	1		30
2,4-Dimethylphenol	90		91		30-130	1		30
2-Nitrophenol	104		106		30-130	2		30
4-Nitrophenol	70		103	Q	10-80	38	Q	30
2,4-Dinitrophenol	144	Q	143	Q	20-130	1		30
4,6-Dinitro-o-cresol	156		152		20-164	3		30
Phenol	38		54		12-110	35	Q	30
3-Methylphenol/4-Methylphenol	72		85		30-130	17		30
2,4,5-Trichlorophenol	114		113		30-130	1		30
Carbazole	99		101		55-144	2		30
Atrazine	125		123		40-140	2		30
Benzaldehyde	68		71		40-140	4		30
Caprolactam	32		30		10-130	6		30
2,3,4,6-Tetrachlorophenol	123		124		40-140	1		30



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** PH. II ESA  
**Project Number:** E1641

**Lab Number:** L1722530  
**Report Date:** 07/10/17

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 Batch: WG1019445-2 WG1019445-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	50		67		21-120
Phenol-d6	37		56		10-120
Nitrobenzene-d5	86		87		23-120
2-Fluorobiphenyl	97		92		15-120
2,4,6-Tribromophenol	<b>145</b>	Q	<b>140</b>	Q	10-120
4-Terphenyl-d14	105		103		41-149

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1019446-2 WG1019446-3								
Acenaphthene	17	Q	62		37-111	114	Q	40
2-Chloronaphthalene	18	Q	65		40-140	113	Q	40
Fluoranthene	20	Q	66		40-140	107	Q	40
Hexachlorobutadiene	18	Q	68		40-140	116	Q	40
Naphthalene	15	Q	57		40-140	117	Q	40
Benzo(a)anthracene	22	Q	58		40-140	90	Q	40
Benzo(a)pyrene	34	Q	57		40-140	51	Q	40
Benzo(b)fluoranthene	34	Q	59		40-140	54	Q	40
Benzo(k)fluoranthene	34	Q	55		40-140	47	Q	40
Chrysene	22	Q	56		40-140	87	Q	40
Acenaphthylene	18	Q	66		40-140	114	Q	40
Anthracene	18	Q	61		40-140	109	Q	40
Benzo(ghi)perylene	46		62		40-140	30		40
Fluorene	19	Q	67		40-140	112	Q	40
Phenanthrene	17	Q	58		40-140	109	Q	40
Dibenzo(a,h)anthracene	47		60		40-140	24		40
Indeno(1,2,3-cd)pyrene	49		65		40-140	28		40
Pyrene	20	Q	64		26-127	105	Q	40
2-Methylnaphthalene	16	Q	61		40-140	117	Q	40
Pentachlorophenol	20		66		9-103	107	Q	40
Hexachlorobenzene	21	Q	72		40-140	110	Q	40
Hexachloroethane	15	Q	58		40-140	118	Q	40

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Project Number: E1641

Lab Number: L1722530

Report Date: 07/10/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1019446-2 WG1019446-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	26		35		21-120
Phenol-d6	21		24		10-120
Nitrobenzene-d5	17	Q	58		23-120
2-Fluorobiphenyl	18		60		15-120
2,4,6-Tribromophenol	24		83		10-120
4-Terphenyl-d14	43		67		41-149

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-09 Batch: WG1019905-2 WG1019905-3								
Acenaphthene	84		81		31-137	4		50
Hexachlorobenzene	94		90		40-140	4		50
Bis(2-chloroethyl)ether	86		80		40-140	7		50
2-Chloronaphthalene	88		84		40-140	5		50
3,3'-Dichlorobenzidine	59		59		40-140	0		50
2,4-Dinitrotoluene	113		110		40-132	3		50
2,6-Dinitrotoluene	108		104		40-140	4		50
Fluoranthene	90		86		40-140	5		50
4-Chlorophenyl phenyl ether	86		83		40-140	4		50
4-Bromophenyl phenyl ether	90		86		40-140	5		50
Bis(2-chloroisopropyl)ether	83		80		40-140	4		50
Bis(2-chloroethoxy)methane	91		86		40-117	6		50
Hexachlorobutadiene	82		76		40-140	8		50
Hexachlorocyclopentadiene	75		72		40-140	4		50
Hexachloroethane	85		82		40-140	4		50
Isophorone	87		84		40-140	4		50
Naphthalene	83		78		40-140	6		50
Nitrobenzene	90		87		40-140	3		50
NDPA/DPA	90		87		36-157	3		50
n-Nitrosodi-n-propylamine	84		82		32-121	2		50
Bis(2-ethylhexyl)phthalate	95		92		40-140	3		50
Butyl benzyl phthalate	100		96		40-140	4		50
Di-n-butylphthalate	92		88		40-140	4		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-09 Batch: WG1019905-2 WG1019905-3								
Di-n-octylphthalate	100		95		40-140	5		50
Diethyl phthalate	89		85		40-140	5		50
Dimethyl phthalate	89		84		40-140	6		50
Benzo(a)anthracene	84		82		40-140	2		50
Benzo(a)pyrene	91		86		40-140	6		50
Benzo(b)fluoranthene	91		86		40-140	6		50
Benzo(k)fluoranthene	89		86		40-140	3		50
Chrysene	86		84		40-140	2		50
Acenaphthylene	89		84		40-140	6		50
Anthracene	87		84		40-140	4		50
Benzo(ghi)perylene	90		86		40-140	5		50
Fluorene	88		85		40-140	3		50
Phenanthrene	88		83		40-140	6		50
Dibenzo(a,h)anthracene	90		87		40-140	3		50
Indeno(1,2,3-cd)pyrene	90		87		40-140	3		50
Pyrene	90		84		35-142	7		50
Biphenyl	88		83		54-104	6		50
4-Chloroaniline	52		47		40-140	10		50
2-Nitroaniline	117		113		47-134	3		50
3-Nitroaniline	88		86		26-129	2		50
4-Nitroaniline	102		98		41-125	4		50
Dibenzofuran	87		82		40-140	6		50
2-Methylnaphthalene	85		80		40-140	6		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-09 Batch: WG1019905-2 WG1019905-3								
1,2,4,5-Tetrachlorobenzene	90		86		40-117	5		50
Acetophenone	88		86		14-144	2		50
2,4,6-Trichlorophenol	96		90		30-130	6		50
p-Chloro-m-cresol	91		87		26-103	4		50
2-Chlorophenol	91		87		25-102	4		50
2,4-Dichlorophenol	97		94		30-130	3		50
2,4-Dimethylphenol	93		91		30-130	2		50
2-Nitrophenol	111		109		30-130	2		50
4-Nitrophenol	104		107		11-114	3		50
2,4-Dinitrophenol	74		76		4-130	3		50
4,6-Dinitro-o-cresol	116		112		10-130	4		50
Pentachlorophenol	88		86		17-109	2		50
Phenol	88		85		26-90	3		50
2-Methylphenol	92		90		30-130	2		50
3-Methylphenol/4-Methylphenol	91		90		30-130	1		50
2,4,5-Trichlorophenol	96		92		30-130	4		50
Carbazole	90		85		54-128	6		50
Atrazine	86		84		40-140	2		50
Benzaldehyde	77		71		40-140	8		50
Caprolactam	96		93		15-130	3		50
2,3,4,6-Tetrachlorophenol	96		94		40-140	2		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** PH. II ESA  
**Project Number:** E1641

**Lab Number:** L1722530  
**Report Date:** 07/10/17

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): 02-09 Batch: WG1019905-2 WG1019905-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	90		85		25-120
Phenol-d6	90		87		10-120
Nitrobenzene-d5	93		91		23-120
2-Fluorobiphenyl	86		80		30-120
2,4,6-Tribromophenol	101		99		10-136
4-Terphenyl-d14	88		85		18-120

# PCBS



Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-03  
 Client ID: SB2 (0-2.5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 09:20  
 Date Received: 06/30/17  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/06/17 07:58  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 07/06/17  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 07/07/17

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 07/07/17 01:56  
 Analyst: JA  
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.6	4.72	1	A
Aroclor 1221	ND		ug/kg	41.6	6.33	1	A
Aroclor 1232	ND		ug/kg	41.6	4.09	1	A
Aroclor 1242	ND		ug/kg	41.6	5.09	1	A
Aroclor 1248	ND		ug/kg	41.6	4.67	1	A
Aroclor 1254	ND		ug/kg	41.6	3.40	1	A
Aroclor 1260	29.6	J	ug/kg	41.6	4.34	1	B
Aroclor 1262	ND		ug/kg	41.6	3.42	1	A
Aroclor 1268	ND		ug/kg	41.6	2.95	1	A
PCBs, Total	29.6	J	ug/kg	41.6	4.34	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	58		30-150	B

**Project Name:** PH. II ESA  
**Project Number:** E1641

**Lab Number:** L1722530  
**Report Date:** 07/10/17

**SAMPLE RESULTS**

Lab ID: L1722530-04  
 Client ID: SB3 (1-5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY  
 Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 07/07/17 02:09  
 Analyst: JA  
 Percent Solids: 86%

Date Collected: 06/29/17 09:50  
 Date Received: 06/30/17  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/06/17 07:58  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 07/06/17  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 07/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	36.8	4.18	1	A
Aroclor 1221	ND		ug/kg	36.8	5.60	1	A
Aroclor 1232	ND		ug/kg	36.8	3.62	1	A
Aroclor 1242	ND		ug/kg	36.8	4.51	1	A
Aroclor 1248	ND		ug/kg	36.8	4.13	1	A
Aroclor 1254	ND		ug/kg	36.8	3.00	1	A
Aroclor 1260	10.6	J	ug/kg	36.8	3.84	1	B
Aroclor 1262	ND		ug/kg	36.8	3.03	1	A
Aroclor 1268	ND		ug/kg	36.8	2.61	1	A
PCBs, Total	10.6	J	ug/kg	36.8	3.84	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-06  
 Client ID: SB6 (0-2')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 13:20  
 Date Received: 06/30/17  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/06/17 07:58  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 07/06/17  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 07/07/17

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 07/07/17 02:23  
 Analyst: JA  
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.3	3.89	1	A
Aroclor 1221	ND		ug/kg	34.3	5.22	1	A
Aroclor 1232	ND		ug/kg	34.3	3.38	1	A
Aroclor 1242	ND		ug/kg	34.3	4.20	1	A
Aroclor 1248	ND		ug/kg	34.3	3.85	1	A
Aroclor 1254	27.3	J	ug/kg	34.3	2.80	1	B
Aroclor 1260	24.4	J	ug/kg	34.3	3.58	1	B
Aroclor 1262	ND		ug/kg	34.3	2.82	1	A
Aroclor 1268	ND		ug/kg	34.3	2.43	1	A
PCBs, Total	51.7	J	ug/kg	34.3	2.80	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-09  
 Client ID: SB11 (0-2.5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO, NY

Date Collected: 06/29/17 15:00  
 Date Received: 06/30/17  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/06/17 07:58  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 07/06/17  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 07/07/17

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 07/07/17 02:36  
 Analyst: JA  
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.7	4.61	1	A
Aroclor 1221	ND		ug/kg	40.7	6.19	1	A
Aroclor 1232	ND		ug/kg	40.7	4.00	1	A
Aroclor 1242	ND		ug/kg	40.7	4.98	1	A
Aroclor 1248	ND		ug/kg	40.7	4.56	1	A
Aroclor 1254	ND		ug/kg	40.7	3.32	1	A
Aroclor 1260	20.2	J	ug/kg	40.7	4.25	1	B
Aroclor 1262	ND		ug/kg	40.7	3.34	1	A
Aroclor 1268	ND		ug/kg	40.7	2.88	1	A
PCBs, Total	20.2	J	ug/kg	40.7	4.25	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 07/05/17 19:03  
Analyst: HT

Extraction Method: EPA 3546  
Extraction Date: 07/05/17 08:16  
Cleanup Method: EPA 3665A  
Cleanup Date: 07/05/17  
Cleanup Method: EPA 3660B  
Cleanup Date: 07/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03-04,06,09 Batch: WG1019633-1						
Aroclor 1016	ND		ug/kg	32.1	3.64	A
Aroclor 1221	ND		ug/kg	32.1	4.89	A
Aroclor 1232	ND		ug/kg	32.1	3.16	A
Aroclor 1242	ND		ug/kg	32.1	3.93	A
Aroclor 1248	ND		ug/kg	32.1	3.60	A
Aroclor 1254	ND		ug/kg	32.1	2.62	A
Aroclor 1260	ND		ug/kg	32.1	3.35	A
Aroclor 1262	ND		ug/kg	32.1	2.64	A
Aroclor 1268	ND		ug/kg	32.1	2.28	A
PCBs, Total	ND		ug/kg	32.1	2.28	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	91		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Project Number: E1641

Lab Number: L1722530

Report Date: 07/10/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03-04,06,09 Batch: WG1019633-2 WG1019633-3									
Aroclor 1016	70		72		40-140	3		50	A
Aroclor 1260	66		63		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		87		30-150	A
Decachlorobiphenyl	75		72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		84		30-150	B
Decachlorobiphenyl	82		85		30-150	B

## METALS

**Project Name:** PH. II ESA  
**Project Number:** E1641

**Lab Number:** L1722530  
**Report Date:** 07/10/17

**SAMPLE RESULTS**

Lab ID: L1722530-03  
 Client ID: SB2 (0-2.5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO,  
 Matrix: Soil  
 Percent Solids: 79%

Date Collected: 06/29/17 09:20  
 Date Received: 06/30/17  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	12400		mg/kg	9.90	2.67	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Antimony, Total	ND		mg/kg	4.95	0.376	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Arsenic, Total	13.0		mg/kg	0.990	0.206	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Barium, Total	229		mg/kg	0.990	0.172	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Beryllium, Total	1.08		mg/kg	0.495	0.033	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Cadmium, Total	1.11		mg/kg	0.990	0.097	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Calcium, Total	74400		mg/kg	9.90	3.46	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Chromium, Total	41.4		mg/kg	0.990	0.095	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Cobalt, Total	4.95		mg/kg	1.98	0.164	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Copper, Total	109		mg/kg	0.990	0.255	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Iron, Total	21100		mg/kg	4.95	0.894	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Lead, Total	133		mg/kg	4.95	0.265	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Magnesium, Total	8530		mg/kg	9.90	1.52	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Manganese, Total	2360		mg/kg	0.990	0.157	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Mercury, Total	0.16		mg/kg	0.08	0.02	1	07/06/17 08:10	07/08/17 11:54	EPA 7471B	1,7471B	BV
Nickel, Total	12.0		mg/kg	2.47	0.240	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Potassium, Total	1200		mg/kg	247	14.2	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Selenium, Total	2.47		mg/kg	1.98	0.255	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.990	0.280	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Sodium, Total	527		mg/kg	198	3.12	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Thallium, Total	3.59		mg/kg	1.98	0.312	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Vanadium, Total	20.2		mg/kg	0.990	0.201	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS
Zinc, Total	249		mg/kg	4.95	0.290	2	07/06/17 06:30	07/07/17 15:50	EPA 3050B	1,6010C	PS





**Project Name:** PH. II ESA  
**Project Number:** E1641

**Lab Number:** L1722530  
**Report Date:** 07/10/17

**SAMPLE RESULTS**

Lab ID: L1722530-04  
 Client ID: SB3 (1-5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO,  
 Matrix: Soil  
 Percent Solids: 86%

Date Collected: 06/29/17 09:50  
 Date Received: 06/30/17  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	8650		mg/kg	8.86	2.39	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Antimony, Total	ND		mg/kg	4.43	0.337	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Arsenic, Total	13.4		mg/kg	0.886	0.184	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Barium, Total	102		mg/kg	0.886	0.154	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Beryllium, Total	0.762		mg/kg	0.443	0.029	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Cadmium, Total	1.00		mg/kg	0.886	0.087	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Calcium, Total	48200		mg/kg	8.86	3.10	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Chromium, Total	28.0		mg/kg	0.886	0.085	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Cobalt, Total	4.29		mg/kg	1.77	0.147	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Copper, Total	309		mg/kg	0.886	0.228	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Iron, Total	52600		mg/kg	4.43	0.800	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Lead, Total	147		mg/kg	4.43	0.237	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Magnesium, Total	7550		mg/kg	8.86	1.36	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Manganese, Total	1070		mg/kg	0.886	0.141	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Mercury, Total	0.03	J	mg/kg	0.07	0.02	1	07/06/17 08:10	07/08/17 11:56	EPA 7471B	1,7471B	BV
Nickel, Total	23.2		mg/kg	2.21	0.214	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Potassium, Total	1010		mg/kg	221	12.8	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.77	0.228	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.886	0.251	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Sodium, Total	222		mg/kg	177	2.79	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Thallium, Total	1.70	J	mg/kg	1.77	0.279	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Vanadium, Total	14.7		mg/kg	0.886	0.180	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS
Zinc, Total	176		mg/kg	4.43	0.260	2	07/06/17 06:30	07/07/17 15:54	EPA 3050B	1,6010C	PS



**Project Name:** PH. II ESA  
**Project Number:** E1641

**Lab Number:** L1722530  
**Report Date:** 07/10/17

**SAMPLE RESULTS**

Lab ID: L1722530-05  
 Client ID: SB5 (0-4')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO,  
 Matrix: Soil  
 Percent Solids: 85%

Date Collected: 06/29/17 11:05  
 Date Received: 06/30/17  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	27200		mg/kg	9.20	2.48	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Antimony, Total	ND		mg/kg	4.60	0.350	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Arsenic, Total	10.4		mg/kg	0.920	0.191	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Barium, Total	293		mg/kg	0.920	0.160	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Beryllium, Total	1.74		mg/kg	0.460	0.030	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Cadmium, Total	0.865	J	mg/kg	0.920	0.090	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Calcium, Total	89200		mg/kg	9.20	3.22	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Chromium, Total	147		mg/kg	0.920	0.088	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Cobalt, Total	4.69		mg/kg	1.84	0.153	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Copper, Total	338		mg/kg	0.920	0.238	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Iron, Total	24800		mg/kg	4.60	0.831	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Lead, Total	144		mg/kg	4.60	0.247	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Magnesium, Total	3490		mg/kg	9.20	1.42	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Manganese, Total	12300		mg/kg	0.920	0.146	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Mercury, Total	0.10		mg/kg	0.07	0.02	1	07/06/17 08:10	07/08/17 11:58	EPA 7471B	1,7471B	BV
Nickel, Total	9.32		mg/kg	2.30	0.223	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Potassium, Total	3430		mg/kg	230	13.2	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Selenium, Total	10.8		mg/kg	1.84	0.238	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Silver, Total	1.93		mg/kg	0.920	0.260	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Sodium, Total	1790		mg/kg	184	2.90	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Thallium, Total	18.4		mg/kg	1.84	0.290	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Vanadium, Total	38.4		mg/kg	0.920	0.187	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS
Zinc, Total	232		mg/kg	4.60	0.270	2	07/06/17 06:30	07/07/17 15:59	EPA 3050B	1,6010C	PS



**Project Name:** PH. II ESA  
**Project Number:** E1641

**Lab Number:** L1722530  
**Report Date:** 07/10/17

**SAMPLE RESULTS**

Lab ID: L1722530-06  
 Client ID: SB6 (0-2')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO,  
 Matrix: Soil  
 Percent Solids: 92%

Date Collected: 06/29/17 13:20  
 Date Received: 06/30/17  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	4700		mg/kg	8.50	2.30	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Antimony, Total	3.04	J	mg/kg	4.25	0.323	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Arsenic, Total	4.86		mg/kg	0.850	0.177	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Barium, Total	61.8		mg/kg	0.850	0.148	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Beryllium, Total	0.468		mg/kg	0.425	0.028	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Cadmium, Total	0.867		mg/kg	0.850	0.083	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Calcium, Total	145000		mg/kg	85.0	29.8	20	07/06/17 06:30	07/07/17 19:44	EPA 3050B	1,6010C	AB
Chromium, Total	8.37		mg/kg	0.850	0.082	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Cobalt, Total	2.15		mg/kg	1.70	0.141	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Copper, Total	3750		mg/kg	0.850	0.219	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Iron, Total	7730		mg/kg	4.25	0.768	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Lead, Total	258		mg/kg	4.25	0.228	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Magnesium, Total	14300		mg/kg	8.50	1.31	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Manganese, Total	518		mg/kg	0.850	0.135	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Mercury, Total	0.06	J	mg/kg	0.07	0.01	1	07/06/17 08:10	07/08/17 12:03	EPA 7471B	1,7471B	BV
Nickel, Total	18.1		mg/kg	2.12	0.206	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Potassium, Total	429		mg/kg	212	12.2	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Selenium, Total	0.451	J	mg/kg	1.70	0.219	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Silver, Total	1.53		mg/kg	0.850	0.241	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Sodium, Total	271		mg/kg	170	2.68	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Thallium, Total	0.697	J	mg/kg	1.70	0.268	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Vanadium, Total	11.2		mg/kg	0.850	0.173	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB
Zinc, Total	960		mg/kg	4.25	0.249	2	07/06/17 06:30	07/07/17 18:02	EPA 3050B	1,6010C	AB



**Project Name:** PH. II ESA  
**Project Number:** E1641

**Lab Number:** L1722530  
**Report Date:** 07/10/17

**SAMPLE RESULTS**

Lab ID: L1722530-08  
 Client ID: SB9 (0-4')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO,  
 Matrix: Soil  
 Percent Solids: 86%

Date Collected: 06/29/17 14:20  
 Date Received: 06/30/17  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	5620		mg/kg	8.76	2.36	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.38	0.333	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Arsenic, Total	3.83		mg/kg	0.876	0.182	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Barium, Total	54.0		mg/kg	0.876	0.152	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Beryllium, Total	0.674		mg/kg	0.438	0.029	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Cadmium, Total	0.788	J	mg/kg	0.876	0.086	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Calcium, Total	34400		mg/kg	8.76	3.06	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Chromium, Total	6.70		mg/kg	0.876	0.084	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Cobalt, Total	4.66		mg/kg	1.75	0.145	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Copper, Total	1910		mg/kg	0.876	0.226	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Iron, Total	22100		mg/kg	4.38	0.791	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Lead, Total	126		mg/kg	4.38	0.235	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Magnesium, Total	3140		mg/kg	8.76	1.35	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Manganese, Total	579		mg/kg	0.876	0.139	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Mercury, Total	0.03	J	mg/kg	0.07	0.02	1	07/06/17 08:10	07/08/17 12:05	EPA 7471B	1,7471B	BV
Nickel, Total	31.4		mg/kg	2.19	0.212	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Potassium, Total	396		mg/kg	219	12.6	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.75	0.226	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Silver, Total	0.639	J	mg/kg	0.876	0.248	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Sodium, Total	300		mg/kg	175	2.76	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Thallium, Total	0.876	J	mg/kg	1.75	0.276	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Vanadium, Total	10.7		mg/kg	0.876	0.178	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB
Zinc, Total	890		mg/kg	4.38	0.256	2	07/06/17 06:30	07/07/17 18:07	EPA 3050B	1,6010C	AB



**Project Name:** PH. II ESA  
**Project Number:** E1641

**Lab Number:** L1722530  
**Report Date:** 07/10/17

**SAMPLE RESULTS**

Lab ID: L1722530-09  
 Client ID: SB11 (0-2.5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO,  
 Matrix: Soil  
 Percent Solids: 80%

Date Collected: 06/29/17 15:00  
 Date Received: 06/30/17  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	8860		mg/kg	9.85	2.66	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.92	0.374	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Arsenic, Total	10.4		mg/kg	0.985	0.205	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Barium, Total	105		mg/kg	0.985	0.171	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Beryllium, Total	0.611		mg/kg	0.492	0.033	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Cadmium, Total	1.69		mg/kg	0.985	0.097	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Calcium, Total	13400		mg/kg	9.85	3.45	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Chromium, Total	22.1		mg/kg	0.985	0.095	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Cobalt, Total	7.94		mg/kg	1.97	0.164	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Copper, Total	638		mg/kg	0.985	0.254	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Iron, Total	33900		mg/kg	4.92	0.890	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Lead, Total	360		mg/kg	4.92	0.264	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Magnesium, Total	3620		mg/kg	9.85	1.52	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Manganese, Total	578		mg/kg	0.985	0.157	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Mercury, Total	0.12		mg/kg	0.08	0.02	1	07/06/17 08:10	07/08/17 12:07	EPA 7471B	1,7471B	BV
Nickel, Total	18.1		mg/kg	2.46	0.238	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Potassium, Total	791		mg/kg	246	14.2	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Selenium, Total	0.266	J	mg/kg	1.97	0.254	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Silver, Total	0.286	J	mg/kg	0.985	0.279	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Sodium, Total	150	J	mg/kg	197	3.10	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Thallium, Total	0.896	J	mg/kg	1.97	0.310	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Vanadium, Total	36.8		mg/kg	0.985	0.200	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB
Zinc, Total	598		mg/kg	4.92	0.289	2	07/06/17 06:30	07/07/17 18:12	EPA 3050B	1,6010C	AB



**Project Name:** PH. II ESA  
**Project Number:** E1641

**Lab Number:** L1722530  
**Report Date:** 07/10/17

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03-06,08-09 Batch: WG1019580-1									
Mercury, Total	ND	mg/kg	0.08	0.02	1	07/06/17 08:10	07/08/17 11:42	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): 03-06,08-09 Batch: WG1019940-1									
Aluminum, Total	ND	mg/kg	4.00	1.08	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Antimony, Total	0.152 J	mg/kg	2.00	0.152	1	07/06/17 06:30	07/07/17 14:13	1,6010C	PS
Arsenic, Total	ND	mg/kg	0.400	0.083	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Barium, Total	ND	mg/kg	0.400	0.070	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Beryllium, Total	ND	mg/kg	0.200	0.013	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Cadmium, Total	ND	mg/kg	0.400	0.039	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Calcium, Total	ND	mg/kg	4.00	1.40	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Chromium, Total	ND	mg/kg	0.400	0.038	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Cobalt, Total	ND	mg/kg	0.800	0.066	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Copper, Total	ND	mg/kg	0.400	0.103	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Iron, Total	ND	mg/kg	2.00	0.361	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Lead, Total	ND	mg/kg	2.00	0.107	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Magnesium, Total	ND	mg/kg	4.00	0.616	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Manganese, Total	ND	mg/kg	0.400	0.064	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Nickel, Total	ND	mg/kg	1.00	0.097	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Potassium, Total	ND	mg/kg	100	5.76	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Selenium, Total	ND	mg/kg	0.800	0.103	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Silver, Total	ND	mg/kg	0.400	0.113	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Sodium, Total	ND	mg/kg	80.0	1.26	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Thallium, Total	ND	mg/kg	0.800	0.126	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Vanadium, Total	ND	mg/kg	0.400	0.081	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB
Zinc, Total	ND	mg/kg	2.00	0.117	1	07/06/17 06:30	07/07/17 19:17	1,6010C	AB

**Project Name:** PH. II ESA

**Lab Number:** L1722530

**Project Number:** E1641

**Report Date:** 07/10/17

## **Method Blank Analysis Batch Quality Control**

### **Prep Information**

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Digestion Method: EPA 3050B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Project Number: E1641

Lab Number: L1722530

Report Date: 07/10/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-06,08-09 Batch: WG1019580-2 SRM Lot Number: D093-540								
Mercury, Total	102		-		72-128	-		



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Project Number: E1641

Lab Number: L1722530

Report Date: 07/10/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-06,08-09 Batch: WG1019940-2 SRM Lot Number: D093-540					
Aluminum, Total	79	-	55-146	-	
Antimony, Total	198	-	2-204	-	
Arsenic, Total	114	-	70-130	-	
Barium, Total	104	-	83-117	-	
Beryllium, Total	106	-	83-117	-	
Cadmium, Total	107	-	83-117	-	
Calcium, Total	106	-	83-117	-	
Chromium, Total	103	-	80-120	-	
Cobalt, Total	106	-	84-116	-	
Copper, Total	105	-	82-118	-	
Iron, Total	108	-	47-153	-	
Lead, Total	106	-	82-117	-	
Magnesium, Total	90	-	77-124	-	
Manganese, Total	100	-	81-119	-	
Nickel, Total	104	-	83-117	-	
Potassium, Total	88	-	71-129	-	
Selenium, Total	116	-	78-122	-	
Silver, Total	106	-	76-124	-	
Sodium, Total	100	-	72-128	-	
Thallium, Total	108	-	79-121	-	
Vanadium, Total	106	-	78-122	-	

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: PH. II ESA

Project Number: E1641

Lab Number: L1722530

Report Date: 07/10/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-06,08-09 Batch: WG1019940-2 SRM Lot Number: D093-540					
Zinc, Total	110	-	83-117	-	

**Matrix Spike Analysis**  
Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

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): 03-06,08-09 QC Batch ID: WG1019580-3 WG1019580-4 QC Sample: L1722538-03 Client ID: MS Sample												
Mercury, Total	2.0	0.152	2.2	131	Q	1.9	0	Q	80-120	15		20

## Matrix Spike Analysis

### Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

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): 03-06,08-09    QC Batch ID: WG1019940-3    QC Sample: L1722502-01    Client ID: MS Sample									
Aluminum, Total	4340	173	4880	312	Q	-	75-125	-	20
Antimony, Total	7.79	43.3	52.9	104		-	75-125	-	20
Arsenic, Total	12.8	10.4	21.2	81		-	75-125	-	20
Barium, Total	69.5	173	237	97		-	75-125	-	20
Beryllium, Total	0.415J	4.33	4.67	108		-	75-125	-	20
Cadmium, Total	0.570J	4.41	4.79	108		-	75-125	-	20
Calcium, Total	19000	865	18100	0	Q	-	75-125	-	20
Chromium, Total	27.7	17.3	30.5	16	Q	-	75-125	-	20
Cobalt, Total	4.15	43.3	44.2	92		-	75-125	-	20
Copper, Total	75.7	21.6	97.4	100		-	75-125	-	20
Iron, Total	15000	86.5	13800	0	Q	-	75-125	-	20
Lead, Total	185.	44.1	260	170	Q	-	75-125	-	20
Magnesium, Total	2060	865	2520	53	Q	-	75-125	-	20
Manganese, Total	149.	43.3	185	83		-	75-125	-	20
Nickel, Total	12.3	43.3	49.9	87		-	75-125	-	20
Potassium, Total	1060	865	1780	83		-	75-125	-	20
Selenium, Total	0.372J	10.4	10.6	102		-	75-125	-	20
Silver, Total	ND	26	25.9	100		-	75-125	-	20
Sodium, Total	439.	865	1330	103		-	75-125	-	20
Thallium, Total	ND	10.4	9.59	92		-	75-125	-	20
Vanadium, Total	16.5	43.3	59.5	99		-	75-125	-	20

**Matrix Spike Analysis**  
Batch Quality Control

Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

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): 03-06,08-09 QC Batch ID: WG1019940-3 QC Sample: L1722502-01 Client ID: MS Sample									
Zinc, Total	147.	43.3	182	81	-	-	75-125	-	20

## Lab Duplicate Analysis

Batch Quality Control

Project Name: PH. II ESA

Project Number: E1641

Lab Number: L1722530

Report Date: 07/10/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-06,08-09 QC Batch ID: WG1019940-4 QC Sample: L1722502-01 Client ID: DUP Sample						
Aluminum, Total	4340	4280	mg/kg	1		20
Antimony, Total	7.79	7.74	mg/kg	1		20
Arsenic, Total	12.8	11.1	mg/kg	14		20
Barium, Total	69.5	78.8	mg/kg	13		20
Beryllium, Total	0.415J	0.342J	mg/kg	NC		20
Cadmium, Total	0.570J	0.634J	mg/kg	NC		20
Calcium, Total	19000	20200	mg/kg	6		20
Chromium, Total	27.7	13.5	mg/kg	69	Q	20
Cobalt, Total	4.15	4.43	mg/kg	7		20
Copper, Total	75.7	82.0	mg/kg	8		20
Iron, Total	15000	14700	mg/kg	2		20
Lead, Total	185.	219	mg/kg	17		20
Magnesium, Total	2060	2270	mg/kg	10		20
Manganese, Total	149.	151	mg/kg	1		20
Nickel, Total	12.3	11.3	mg/kg	8		20
Potassium, Total	1060	865	mg/kg	20		20
Selenium, Total	0.372J	0.514J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	439.	449	mg/kg	2		20

## Lab Duplicate Analysis

Batch Quality Control

Project Name: PH. II ESA

Project Number: E1641

Lab Number: L1722530

Report Date: 07/10/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-06,08-09 QC Batch ID: WG1019940-4 QC Sample: L1722502-01 Client ID: DUP Sample					
Thallium, Total	ND	0.291J	mg/kg	NC	20
Vanadium, Total	16.5	15.9	mg/kg	4	20
Zinc, Total	147.	144	mg/kg	2	20

# **INORGANICS & MISCELLANEOUS**



Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

**SAMPLE RESULTS**

Lab ID: L1722530-02  
 Client ID: SB1 (0-2.5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO,  
 Matrix: Soil

Date Collected: 06/29/17 09:00  
 Date Received: 06/30/17  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	07/05/17 10:27	121,2540G	RI



Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-03  
 Client ID: SB2 (0-2.5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO,  
 Matrix: Soil

Date Collected: 06/29/17 09:20  
 Date Received: 06/30/17  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.1		%	0.100	NA	1	-	07/05/17 10:27	121,2540G	RI



Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-04  
 Client ID: SB3 (1-5')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO,  
 Matrix: Soil

Date Collected: 06/29/17 09:50  
 Date Received: 06/30/17  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.3		%	0.100	NA	1	-	07/05/17 10:27	121,2540G	RI



Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

**SAMPLE RESULTS**

Lab ID: L1722530-05  
 Client ID: SB5 (0-4')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO,  
 Matrix: Soil

Date Collected: 06/29/17 11:05  
 Date Received: 06/30/17  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	07/05/17 10:27	121,2540G	RI



Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

**SAMPLE RESULTS**

Lab ID: L1722530-06

Date Collected: 06/29/17 13:20

Client ID: SB6 (0-2')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO,

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	07/05/17 10:27	121,2540G	RI



Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

**SAMPLE RESULTS**

Lab ID: L1722530-07

Date Collected: 06/29/17 13:40

Client ID: SB7 (1-5')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO,

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.9		%	0.100	NA	1	-	07/05/17 10:27	121,2540G	RI



Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

**SAMPLE RESULTS**

Lab ID: L1722530-08  
 Client ID: SB9 (0-4')  
 Sample Location: 124&145 CHANDLER ST., BUFFALO,  
 Matrix: Soil

Date Collected: 06/29/17 14:20  
 Date Received: 06/30/17  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	07/05/17 10:27	121,2540G	RI



Project Name: PH. II ESA

Lab Number: L1722530

Project Number: E1641

Report Date: 07/10/17

## SAMPLE RESULTS

Lab ID: L1722530-09

Date Collected: 06/29/17 15:00

Client ID: SB11 (0-2.5')

Date Received: 06/30/17

Sample Location: 124&amp;145 CHANDLER ST., BUFFALO,

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.8		%	0.100	NA	1	-	07/05/17 10:27	121,2540G	RI





## Lab Duplicate Analysis

Batch Quality Control

Project Name: PH. II ESA

Project Number: E1641

Lab Number: L1722530

Report Date: 07/10/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG1019682-1 QC Sample: L1722609-02 Client ID: DUP Sample						
Solids, Total	78.8	79.1	%	0		20

**Project Name:** PH. II ESA  
**Project Number:** E1641

**Serial\_No:**07101716:59  
**Lab Number:** L1722530  
**Report Date:** 07/10/17

**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(*)
L1722530-01A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1722530-01B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1722530-01C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1722530-01D	Amber 1000ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1722530-02A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TS(7)
L1722530-03A	Glass 120ml/4oz unpreserved	A	NA		3.4	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)
L1722530-03B	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(14)
L1722530-04A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1722530-04B	Glass 120ml/4oz unpreserved	A	NA		3.4	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)
L1722530-04C	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(14)
L1722530-04X	Vial MeOH preserved split	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1722530-04Y	Vial Water preserved split	A	NA		3.4	Y	Absent	05-JUL-17 10:56	NYTCL-8260-R2(14)
L1722530-04Z	Vial Water preserved split	A	NA		3.4	Y	Absent	05-JUL-17 10:56	NYTCL-8260-R2(14)
L1722530-05A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1722530-05B	Glass 60ml unpreserved split	A	NA		3.4	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)
L1722530-05C	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TS(7)

\*Values in parentheses indicate holding time in days



Project Name: PH. II ESA

Lab Number: L1722530

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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1722530-05X	Vial MeOH preserved split	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1722530-05Y	Vial Water preserved split	A	NA		3.4	Y	Absent	05-JUL-17 10:56	NYTCL-8260-R2(14)
L1722530-05Z	Vial Water preserved split	A	NA		3.4	Y	Absent	05-JUL-17 10:56	NYTCL-8260-R2(14)
L1722530-06A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1722530-06B	Glass 120ml/4oz unpreserved	A	NA		3.4	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)
L1722530-06C	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(14)
L1722530-06X	Vial MeOH preserved split	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1722530-06Y	Vial Water preserved split	A	NA		3.4	Y	Absent	05-JUL-17 10:56	NYTCL-8260-R2(14)
L1722530-06Z	Vial Water preserved split	A	NA		3.4	Y	Absent	05-JUL-17 10:56	NYTCL-8260-R2(14)
L1722530-07A	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1722530-07B	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TS(7)
L1722530-07X	Vial MeOH preserved split	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1722530-07Y	Vial Water preserved split	A	NA		3.4	Y	Absent	05-JUL-17 10:56	NYTCL-8260-R2(14)
L1722530-07Z	Vial Water preserved split	A	NA		3.4	Y	Absent	05-JUL-17 10:56	NYTCL-8260-R2(14)
L1722530-08A	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TS(7)
L1722530-08B	Glass 60ml unpreserved split	A	NA		3.4	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)
L1722530-09A	Glass 120ml/4oz unpreserved	A	NA		3.4	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)
L1722530-09B	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(14)

**Project Name:** PH. II ESA  
**Project Number:** E1641

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## 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:** PH. II ESA  
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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:** PH. II ESA  
**Project Number:** E1641

**Lab Number:** L1722530  
**Report Date:** 07/10/17

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

## LIMITATION OF LIABILITIES

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

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



## Certification Information

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

### Westborough Facility

**EPA 624:** m/p-xylene, o-xylene

**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

**EPA 300:** DW: Bromide

**EPA 6860:** NPW and SCM: Perchlorate

**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation

**EPA 9012B:** NPW: Total Cyanide

**EPA 9050A:** NPW: Specific Conductance

**SM3500:** NPW: Ferrous Iron

**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**SM5310C:** DW: Dissolved Organic Carbon

### Mansfield Facility

**SM 2540D:** TSS

**EPA 3005A** NPW

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

**Biological Tissue Matrix:** EPA 3050B

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

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

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

### Mansfield Facility:

#### Drinking Water

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

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

**EPA 245.1 Hg.**

**SM2340B**

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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

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1 of 1

Date Rec'd in Lab  
7/11/17

ALPHA Job #  
L1722530

**Project Information**  
Project Name: Ph. II ESA  
Project Location: 125 & 145 Chendlers St, Buffalo, NY

**Deliverables**  
 ASP-A  ASP-B  
 EQulS (1 File)  EQulS (4 File)  
 Other

**Billing Information**  
 Same as Client Info  
PO #

Client Information  
Client: Hazard Evaluations Inc.  
Address: 3636 North. Buffalo Rd orchard Park, NY 14127  
Phone: 716-667-3130  
Fax: 716-667-3156  
Email: m.wittman@hazardevaluations.com

Project # e1641  
(Use Project name as Project #)   
Project Manager: Candy Fox  
ALPHAQuote #:  
Turn-Around Time  
Standard  Due Date:  
Rush (only if pre approved)  # of Days: 5 day firm

**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:**  
Additionally email results to ebetzold@hazardevaluations.com

Please specify Metals or TAL.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS					Sample Filtration	Total Bottles	
		Date	Time			VOC B260 TAL	VOC B260 TAL	SVDL B270 TAL	TAL Metals	Total PCBs			
22530-01	SB9	6/29/17	3:45pm	GW	EB	X		X					4
-02	SB1 (0-2.5')		9:00am	Soil	EB			X					1
-03	SB2 (0-2.5')		9:20am	Soil	EB			X	X	X			2
-04	SB3 (1-5')		9:50am	Soil	EB		X	X	X	X			3
-05	SB5 (0-4')		11:05am	Soil	EB		X	X	X				2
-06	SB6 (0-2')		1:20pm	Soil	EB		X	X	X	X			3
-07	SB7 (1-5')		1:40pm	Soil	EB		X	X					2
-08	SB9 (0-4')		2:20pm	Soil	EB			X	X				1
-09	SB11 (0-2.5')		3:00pm	Soil	EB			X	X	X			2

Preservative Code:  
A = None  
B = HCl  
C = HNO<sub>3</sub>  
D = H<sub>2</sub>SO<sub>4</sub>  
E = NaOH  
F = MeOH  
G = NaHSO<sub>4</sub>  
H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
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  
Preservative: B 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: Erin J. [Signature] Date/Time: 6/30/17 14:30  
Received By: Audrey Foley AAL Date/Time: 6/30/17 14:30  
Audrey Foley AAL Date/Time: 7/11/17 00:20